```
* * * * * * * * * *   Welcome to STN International   * * * * * * * * * *

 NEWS  1           Web Page URLs for STN Seminar Schedule - N. America
 NEWS  2           "Ask CAS" for self-help around the clock
 NEWS  3  FEB 25   CA/CAPLUS - Russian Agency for Patents and Trademarks
                   (ROSPATENT) added to list of core patent offices covered
 NEWS  4  FEB 28   PATDPAFULL - New display fields provide for legal status
                   data from INPADOC
 NEWS  5  FEB 28   BABS - Current-awareness alerts (SDIs) available
 NEWS  6  FEB 28   MEDLINE/LMEDLINE reloaded
 NEWS  7  MAR 02   GBFULL: New full-text patent database on STN
 NEWS  8  MAR 03   REGISTRY/ZREGISTRY - Sequence annotations enhanced
 NEWS  9  MAR 03   MEDLINE file segment of TOXCENTER reloaded
 NEWS  10 MAR 22   KOREAPAT now updated monthly; patent information enhanced
 NEWS  11 MAR 22   Original IDE display format returns to REGISTRY/ZREGISTRY
 NEWS  12 MAR 22   PATDPASPC - New patent database available
 NEWS  13 MAR 22   REGISTRY/ZREGISTRY enhanced with experimental property tags
 NEWS  14 APR 04   EPFULL enhanced with additional patent information and new
                   fields
 NEWS  15 APR 04   EMBASE - Database reloaded and enhanced

 NEWS EXPRESS  JANUARY 10 CURRENT WINDOWS VERSION IS V7.01a, CURRENT
               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

 NEWS HOURS    STN Operating Hours Plus Help Desk Availability
 NEWS INTER    General Internet Information
 NEWS LOGIN    Welcome Banner and News Items
 NEWS PHONE    Direct Dial and Telecommunication Network Access to STN
 NEWS WWW      CAS World Wide Web Site (general information)

Enter NEWS followed by the item number or name to see news on that
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  * * * * * * * * * * * * * * STN  Columbus  * * * * * * * * * * * * * * *

FILE 'HOME' ENTERED AT 10:30:44 ON 12 APR 2005

=> fil reg; e isopropyl methacrylate/cn
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 0.21       0.21

FILE 'REGISTRY' ENTERED AT 10:31:06 ON 12 APR 2005
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STRUCTURE FILE UPDATES:   11 APR 2005  HIGHEST RN 848290-51-7
DICTIONARY FILE UPDATES:  11 APR 2005  HIGHEST RN 848290-51-7
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TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

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Experimental and calculated property data are now available. For more
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E1            1      ISOPROPYL MESYLGLYCINATE/CN
E2            1      ISOPROPYL METABORATE TRIMER/CN
E3            1 --> ISOPROPYL METHACRYLATE/CN
E4            1      ISOPROPYL METHACRYLATE HOMOPOLYMER/CN
E5            1      ISOPROPYL METHACRYLATE POLYMER/CN
E6            1      ISOPROPYL METHACRYLATE-ITACONIC ACID-METHYLSTYRENE COPOLYMER
                      AMMONIA SALT/CN
E7            1      ISOPROPYL METHACRYLATE-ITACONIC ACID-STYRENE COPOLYMER/CN
E8            1      ISOPROPYL METHACRYLATE-METHACRYLAMIDE COPOLYMER/CN
E9            1      ISOPROPYL METHACRYLATE-METHACRYLIC ACID COPOLYMER/CN
E10           1      ISOPROPYL METHACRYLATE-METHACRYLIC ACID-METHYL METHACRYLATE
                     COPOLYMER/CN
E11           1      ISOPROPYL METHACRYLATE-METHACRYLIC ACID-METHYL METHACRYLATE
                     COPOLYMER AMMONIUM SALT/CN
E12           1      ISOPROPYL METHACRYLATE-METHYL METHACRYLATE COPOLYMER/CN

=> s e3
L1            1 "ISOPROPYL METHACRYLATE"/CN

=> e methylchloroacrylic acid/cn
E1            1      METHYLCHLORAMINE/CN
E2            1      METHYLCHLOROACETYLENE/CN
E3            0 --> METHYLCHLOROACRYLIC ACID/CN
E4            1      METHYLCHLOROCARBENE/CN
E5            1      METHYLCHLOROCYCLOBUTANE/CN
E6            1      METHYLCHLORODIMETHOXYSILANE/CN
E7            1      METHYLCHLORODISILANE-HEXAMETHYL DISILAZANE-PHENYLVINYLDICHLO
                     ROSILANE COPOLYMER/CN
E8            1      METHYLCHLOROETHYLAMINE/CN
E9            1      METHYLCHLOROETHYLAMINE HYDROCHLORIDE/CN
E10           1      METHYLCHLOROFLUOROPHOSPHINE/CN
E11           1      METHYLCHLOROFORM/CN
E12           1      METHYLCHLOROFORM (CH3C35CL3)/CN

=> e chloromethylacrylic acid/cn
E1            1      CHLOROMETHYL-X-ROSAMINE/CN
E2            1      CHLOROMETHYLACETYLENE/CN
E3            0 --> CHLOROMETHYLACRYLIC ACID/CN
E4            1      CHLOROMETHYLAMINE/CN
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E5            1      CHLOROMETHYLAMINE CATION RADICAL/CN
E6            1      CHLOROMETHYLAMINOACETALDEHYDE DIMETHYLACETAL/CN
E7            1      CHLOROMETHYLATED COPPER PHTHALOCYANINE-THIOUREA REACTION PRO
                     DUCTS/CN
E8            1      CHLOROMETHYLBENZALDEHYDE/CN
E9            1      CHLOROMETHYLBENZENE/CN
E10           1      CHLOROMETHYLBENZENE OZONE COMPD. (1:1)/CN
E11           1      CHLOROMETHYLBIS(.ETA.5-PENTAMETHYLCYCLOPENTADIENYL)URANIUM/C
                     N
E12           1      CHLOROMETHYLBIS(2,2,2-TRIFLUOROETHOXY)SILANE/CN

=> e vinylformal/cn
E1            1      VINYLFERROCENE-STYRENE COPOLYMER/CN
E2            1      VINYLFLUORENE POLYMER/CN
E3            0 --> VINYLFORMAL/CN
E4            1      VINYLFORMALDEHYDE-VINYL ACETATE COPOLYMER/CN
E5            1      VINYLFORMAMIDE-N-VINYLIMIDAZOLE-N-VINYL-2-PYRROLIDONE COPOLY
                     MER/CN
E6            1      VINYLFORMIC ACID/CN
E7            1      VINYLFURAN/CN
E8            1      VINYLFURFURAL POLYMER/CN
E9            1      VINYLGERMANE/CN
E10           1      VINYLGERMANE-70GE/CN
E11           1      VINYLGERMANE-72GE/CN
E12           1      VINYLGERMANE-74GE/CN

=> e dodecyl methacrylate/cn
E1            1      DODECYL MERCAPTOACETATE/CN
E2            1      DODECYL MESYLATE/CN
E3            1 --> DODECYL METHACRYLATE/CN
E4            1      DODECYL METHACRYLATE HOMOPOLYMER/CN
E5            1      DODECYL METHACRYLATE POLYMER/CN
E6            1      DODECYL METHACRYLATE TELOMER WITH 2-MERCAPTOETHANOL ESTER WI
                     TH ACRYLIC ACID/CN
E7            1      DODECYL METHACRYLATE TELOMER WITH THIOGLYCOLIC ACID ESTER WI
                     TH HYDROXYMETHYL METHACRYLATE/CN
E8            1      DODECYL METHACRYLATE, TELOMER WITH 3-MERCAPTOPROPIONIC ACID,
                      ESTER WITH GLYCIDYL METHACRYLATE/CN
E9            1      DODECYL METHACRYLATE-.GAMMA.-METHACRYLOXYPROPYLTRIMETHOXYSIL
                     ANE-OCTADECYL METHACRYLATE COPOLYMER/CN
E10           1      DODECYL METHACRYLATE-1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL ACRYL
                     ATE COPOLYMER/CN
E11           1      DODECYL METHACRYLATE-1,2,2,6,6-PENTAMETHYL-4-PIPERIDYL METHA
                     CRYLATE COPOLYMER/CN
E12           1      DODECYL METHACRYLATE-1,6-HEXANEDIOL DIACRYLATE COPOLYMER/CN

=> s e3
L2            1 "DODECYL METHACRYLATE"/CN

=> e octadecyl methacrylate/cn
E1            1      OCTADECYL MERCAPTOACETATE/CN
E2            1      OCTADECYL MESYLATE/CN
E3            1 --> OCTADECYL METHACRYLATE/CN
E4            1      OCTADECYL METHACRYLATE GRAFT HOMOPOLYMER/CN
E5            1      OCTADECYL METHACRYLATE HOMOPOLYMER/CN
E6            1      OCTADECYL METHACRYLATE POLYMER/CN
E7            1      OCTADECYL METHACRYLATE TELOMER WITH 3-MERCAPTOPROPIONIC ACID
                     , ESTER WITH GLYCIDYL METHACRYLATE/CN
E8            1      OCTADECYL METHACRYLATE TELOMER WITH THIOGLYCOLIC ACID ESTER
                     WITH 2-HYDROXYETHYL METHACRYLATE/CN
E9            1      OCTADECYL METHACRYLATE-2,3-EPOXYPROPYL METHACRYLATE POLYMER/
                     CN
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E10             1      OCTADECYL METHACRYLATE-2-(DIETHYLAMINO)ETHYL METHACRYLATE CO
                       POLYMER/CN
E11             1      OCTADECYL METHACRYLATE-2-(TRIMETHOXYSILYLOXY)ETHYL METHACRYL
                       ATE-TRIETHYLENE GLYCOL DIACRYLATE COPOLYMER/CN
E12             1      OCTADECYL METHACRYLATE-2-(TRIMETHOXYSILYLOXY)ETHYL METHACRYL
                       ATE-TRIETHYLENE GLYCOL DIACRYLATE-THIOGLYCOLIC ACID TELOMER/
                       CN

=> s e3
L3              1 "OCTADECYL METHACRYLATE"/CN

=> e octyl methacrylate/cn
E1              1      OCTYL MESITYL SELENIDE/CN
E2              1      OCTYL MESYLATE/CN
E3              1 --> OCTYL METHACRYLATE/CN
E4              1      OCTYL METHACRYLATE HOMOPOLYMER/CN
E5              1      OCTYL METHACRYLATE POLYMER/CN
E6              1      OCTYL METHACRYLATE-.ALPHA.-VINYLNAPHTHALENE COPOLYMER/CN
E7              1      OCTYL METHACRYLATE-1-VINYLIMIDAZOLE COPOLYMER/CN
E8              1      OCTYL METHACRYLATE-1-VINYLIMIDAZOLE POLYMER/CN
E9              1      OCTYL METHACRYLATE-1H,1H,2H,2H-PERFLUORODECYL METHACRYLATE C
                       OPOLYMER/CN
E10             1      OCTYL METHACRYLATE-2,2,2-TRIFLUOROETHYL METHACRYLATE COPOLYM
                       ER/CN
E11             1      OCTYL METHACRYLATE-2-(N-TERT-BUTYLAMINO)ETHYL METHACRYLATE C
                       OPOLYMER/CN
E12             1      OCTYL METHACRYLATE-2-(TERT-BUTYLAMINO)ETHYL METHACRYLATE COP
                       OLYMER/CN

=> s e3
L4              1 "OCTYL METHACRYLATE"/CN

=> e pentyl methacrylate/cn
E1              1      PENTYL MERCAPTYL ANION/CN
E2              1      PENTYL MESYLATE/CN
E3              1 --> PENTYL METHACRYLATE/CN
E4              1      PENTYL METHACRYLATE HOMOPOLYMER/CN
E5              1      PENTYL METHACRYLATE-METHYL METHACRYLATE BLOCK COPOLYMER/CN
E6              1      PENTYL METHACRYLATE-PERDEUTERATED STYRENE BLOCK COPOLYMER/CN
E7              1      PENTYL METHACRYLATE-PROPENE GRAFT COPOLYMER/CN
E8              1      PENTYL METHACRYLATE-PROPYL METHACRYLATE COPOLYMER/CN
E9              1      PENTYL METHACRYLATE-PROPYLENE COPOLYMER/CN
E10             1      PENTYL METHACRYLATE-STYRENE BLOCK COPOLYMER/CN
E11             1      PENTYL METHACRYLATE-TRIALLYL CYANURATE COPOLYMER/CN
E12             1      PENTYL METHANEPHOSPHINATE/CN

=> s e3
L5              1 "PENTYL METHACRYLATE"/CN

=> e propyl methacrylate/cn
E1              1      PROPYL METAPHOSPHIMATE, TETRAMER/CN
E2              1      PROPYL METAPHOSPHIMATE, TRIMER/CN
E3              1 --> PROPYL METHACRYLATE/CN
E4              1      PROPYL METHACRYLATE HOMOPOLYMER/CN
E5              1      PROPYL METHACRYLATE POLYMER/CN
E6              1      PROPYL METHACRYLATE TELOMER WITH 2-MERCAPTOETHANOL ESTER WIT
                       H ACRYLIC ACID/CN
E7              1      PROPYL METHACRYLATE TELOMER WITH 2-MERCAPTOETHANOL ESTER WIT
                       H CROTONIC ACID/CN
E8              1      PROPYL METHACRYLATE TELOMER WITH 2-MERCAPTOETHANOL ESTER WIT
                       H METHACRYLIC ACID/CN
E9              1      PROPYL METHACRYLATE TELOMER WITH THIOGLYCOLIC ACID 2-HYDROXY
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                    -3-METHACRYLOYLOXYPROPYL ESTER/CN
E10           1     PROPYL METHACRYLATE-1-VINYLNAPHTHALENE GRAFT COPOLYMER/CN
E11           1     PROPYL METHACRYLATE-ETHYLENE GLYCOL GRAFT COPOLYMER/CN
E12           1     PROPYL METHACRYLATE-ISOPRENE COPOLYMER/CN

=> s e3
L6            1 "PROPYL METHACRYLATE"/CN

=> e tetradecyl methacrylate/cn
E1            1     TETRADECYL MERCAPTAN/CN
E2            1     TETRADECYL MERCAPTOACETATE/CN
E3            1 --> TETRADECYL METHACRYLATE/CN
E4            1     TETRADECYL METHACRYLATE HOMOPOLYMER/CN
E5            1     TETRADECYL METHACRYLATE-METHACRYLIC ACID COPOLYMER/CN
E6            1     TETRADECYL METHACRYLATE-STYRENE-DIVINYLBENZENE COPOLYMER/CN
E7            1     TETRADECYL METHACRYLATE-STYRENE-DIVINYLBENZENE-THIOGLYCOLIC
                    ACID TELOMER, ESTER WITH 2-HYDROXYETHYL METHACRYLATE/CN
E8            1     TETRADECYL METHACRYLATE-THIOETHANOL TELOMER ESTER WITH 2-CAR
                    BOXYETHYL ACRYLATE/CN
E9            1     TETRADECYL METHACRYLATE-THIOETHANOL TELOMER, ESTER WITH 4-CA
                    RBOXYSTYRENE/CN
E10           1     TETRADECYL METHACRYLATE-VINYL ACETATE COPOLYMER/CN
E11           1     TETRADECYL METHANESULFONATE/CN
E12           1     TETRADECYL MYRISTATE/CN

=> s e3
L7            1 "TETRADECYL METHACRYLATE"/CN

=> e vinylmethylether/cn
E1            1     VINYLMETHYLENECYCLOPENTANE/CN
E2            1     VINYLMETHYLENETRIPHENYLPHOSPHORANE/CN
E3            0 --> VINYLMETHYLETHER/CN
E4            1     VINYLMETHYLMERCURY/CN
E5            1     VINYLMETHYLSILA-14-CROWN-5/CN
E6            1     VINYLMETHYLSILA-17-CROWN-6/CN
E7            1     VINYLMOLYBDENUM HYDRIDE/CN
E8            1     VINYLNAPHTHALENE/CN
E9            1     VINYLNAPHTHALENE POLYMER/CN
E10           1     VINYLNAPHTHALENE-ISOPRENE BLOCK COPOLYMER/CN
E11           1     VINYLNIOBIUM HYDRIDE/CN
E12           1     VINYLNITRENE/CN

=> e vinyl methyl ether/cn
E1            1     VINYL METHACRYLATE-VINYL CHLORIDE COPOLYMER/CN
E2            1     VINYL METHOXYACETATE/CN
E3            1 --> VINYL METHYL ETHER/CN
E4            1     VINYL METHYL ETHER HOMOPOLYMER/CN
E5            1     VINYL METHYL ETHER POLYMER/CN
E6            1     VINYL METHYL ETHER RADICAL CATION/CN
E7            1     VINYL METHYL ETHER-2-ETHYL-2-OXAZOLINE BLOCK COPOLYMER/CN
E8            1     VINYL METHYL ETHER-MALEIC ACID COPOLYMER/CN
E9            1     VINYL METHYL ETHER-MALEIC ANHYDRIDE COPOLYMER/CN
E10           1     VINYL METHYL ETHER-MALEIC ANHYDRIDE COPOLYMER BUTYL ESTER/CN
E11           1     VINYL METHYL ETHER-MALEIC ANHYDRIDE COPOLYMER ETHYL ESTER/CN
E12           1     VINYL METHYL ETHER-MALEIC ANHYDRIDE COPOLYMER ISOPROPYL ESTE
                    R/CN

=> s e3
L8            1 "VINYL METHYL ETHER"/CN

=> e vinyl ethyl ether/cn
E1            1     VINYL ETHOXYMETHYL SELENIDE/CN
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E2            1     VINYL ETHOXYMETHYL SULFIDE/CN
E3            1 --> VINYL ETHYL ETHER/CN
E4            1     VINYL ETHYL ETHER HOMOPOLYMER/CN
E5            1     VINYL ETHYL ETHER POLYMER/CN
E6            1     VINYL ETHYL KETONE/CN
E7            1     VINYL ETHYL MALONATE/CN
E8            1     VINYL ETHYL MALONATE-VINYL ETHYL MESOXALATE P-NITROPHENYLHYD
                    RAZONE COPOLYMER/CN
E9            1     VINYL ETHYL SULFIDE/CN
E10           1     VINYL ETHYL SULFONE/CN
E11           1     VINYL ETHYLAL-FORMAL POLYMER/CN
E12           1     VINYL ETHYLENE GLYCOL ETHER-ETHYLENE COPOLYMER/CN

=> s e3
L9            1 "VINYL ETHYL ETHER"/CN

=> e vinyl butyl ether/cn
E1            1     VINYL BROMOACETATE/CN
E2            1     VINYL BUTANOATE/CN
E3            1 --> VINYL BUTYL ETHER/CN
E4            1     VINYL BUTYL ETHER HOMOPOLYMER/CN
E5            1     VINYL BUTYL ETHER POLYMER/CN
E6            1     VINYL BUTYL ETHER-METHYL METHACRYLATE-POLYETHYLENE GLYCOL ME
                    THYL ETHER ACRYLATE GRAFT COPOLYMER/CN
E7            1     VINYL BUTYL ETHER-VINYL ISOBUTYL ETHER COPOLYMER/CN
E8            1     VINYL BUTYL KETONE/CN
E9            1     VINYL BUTYLSULFONATE/CN
E10           1     VINYL BUTYRAL POLYMERS/CN
E11           1     VINYL BUTYRATE/CN
E12           1     VINYL BUTYRATE HOMOPOLYMER/CN

=> s e3
L10           1 "VINYL BUTYL ETHER"/CN

=> fil reg
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                49.87      50.08

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=> s l1/crn
FIELD CODES CANNOT BE CHANGED HERE
You may have tried to apply a field code to a term that already has a
field code.  You can only add a field code to a term that has no field
code appended to it.

=> fil ca
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   0.43      50.51

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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 16
FILE LAST UPDATED: 7 Apr 2005  (20050407/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> d his

     (FILE 'HOME' ENTERED AT 10:30:44 ON 12 APR 2005)

     FILE 'REGISTRY' ENTERED AT 10:31:06 ON 12 APR 2005
                E ISOPROPYL METHACRYLATE/CN
L1            1 S E3
                E METHYLCHLOROACRYLIC ACID/CN
                E CHLOROMETHYLACRYLIC ACID/CN
                E VINYLFORMAL/CN
                E DODECYL METHACRYLATE/CN
L2            1 S E3
                E OCTADECYL METHACRYLATE/CN
L3            1 S E3
                E OCTYL METHACRYLATE/CN
L4            1 S E3
                E PENTYL METHACRYLATE/CN
L5            1 S E3
                E PROPYL METHACRYLATE/CN
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L6              1 S E3
                  E TETRADECYL METHACRYLATE/CN
L7              1 S E3
                  E VINYLMETHYLETHER/CN
                  E VINYL METHYL ETHER/CN
L8              1 S E3
                  E VINYL ETHYL ETHER/CN
L9              1 S E3
                  E VINYL BUTYL ETHER/CN
L10             1 S E3

     FILE 'REGISTRY' ENTERED AT 10:36:35 ON 12 APR 2005

     FILE 'CA' ENTERED AT 10:37:19 ON 12 APR 2005

=> sel l1 crn
NO ANSWERS SELECTED.  THE ANSWER SET WAS CREATED IN FILE 'REGISTRY'.
USE THE FILE COMMAND TO CHANGE TO THE CORRECT FILE.
An answer set can be processed to create terms only
in the same file in which it was created.

=> fil reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   0.43      50.94

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=> sel l1 crn
FIELD CODE OR DATA NOT PRESENT IN ANSWERS SPECIFIED.
The answers processed either do not include the specified field or do
not contain any data that may be selected from the specified field.
```

```
=> sel l1
E1 THROUGH E6 ASSIGNED

=> s e1-e6/crn
             0 "ISOPROPYL METHACRYLATE"/CRN
             0 "ISOPROPYL 2-METHYL-2-PROPENOATE"/CRN
             0 "ISOPROPYL 2-METHYLACRYLATE"/CRN
             0 "NSC 32625"/CRN
             0 "1-METHYLETHYL 2-METHYLPROPENOATE"/CRN
           315 4655-34-9/CRN
L11        315 ("ISOPROPYL METHACRYLATE"/CRN OR "ISOPROPYL 2-METHYL-2-PROPENOAT
               E"/CRN OR "ISOPROPYL 2-METHYLACRYLATE"/CRN OR "NSC 32625"/CRN
               OR "1-METHYLETHYL 2-METHYLPROPENOATE"/CRN OR 4655-34-9/CRN)

=> fil ca
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                1.18      52.12

FILE 'CA' ENTERED AT 10:38:53 ON 12 APR 2005
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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 16
FILE LAST UPDATED: 7 Apr 2005  (20050407/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


=> fil reg
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                0.43      52.55

FILE 'REGISTRY' ENTERED AT 10:39:07 ON 12 APR 2005
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STRUCTURE FILE UPDATES:   11 APR 2005  HIGHEST RN 848290-51-7
DICTIONARY FILE UPDATES:  11 APR 2005  HIGHEST RN 848290-51-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
```

conducting SmartSELECT searches.

```
**********************************************************************
*                                                                    *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,    *
* effective March 20, 2005.  A new display format, IDERL, is now     *
* available and contains the CA role and document type information. *
*                                                                    *
**********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> sel l2
E7 THROUGH E24 ASSIGNED

=> s e7-e24/crn
             0 "ACRYESTER L"/CRN
             0 "AGEFLEX FM 246"/CRN
             0 "DODECYL METHACRYLATE"/CRN
             0 "DODECYL 2-METHYL-2-PROPENOATE"/CRN
             0 "EXCEPARL L-MA"/CRN
             0 "GE 410 (METHACRYLATE)"/CRN
             0 "GE 410"/CRN
             0 LAMA/CRN
             0 "LAURYL METHACRYLATE"/CRN
             0 "LIGHT ESTER L"/CRN
             0 "N-DODECYL METHACRYLATE"/CRN
             0 "NSC 5188"/CRN
             0 "ROCRYL 320"/CRN
             0 "SIPOMER LMA"/CRN
             0 "SR 313"/CRN
             0 "1-DODECYL METHACRYLATE"/CRN
          6017 142-90-5/CRN
             0 170292-57-6/CRN
L12       6017 ("ACRYESTER L"/CRN OR "AGEFLEX FM 246"/CRN OR "DODECYL METHACRYL
               ATE"/CRN OR "DODECYL 2-METHYL-2-PROPENOATE"/CRN OR "EXCEPARL
               L-MA"/CRN OR "GE 410 (METHACRYLATE)"/CRN OR "GE 410"/CRN OR
               LAMA/CRN OR "LAURYL METHACRYLATE"/CRN OR "LIGHT ESTER L"/CRN OR
               "N-DODECYL METHACRYLATE"/CRN OR "NSC 5188"/CRN OR "ROCRYL 320"/C
               RN OR "SIPOMER LMA"/CRN OR "SR 313"/CRN OR "1-DODECYL METHACRYLA
               TE"/CRN OR 142-90-5/CRN OR 170292-57-6/CRN)

=> d cost
COST IN U.S. DOLLARS                          SINCE FILE      TOTAL
                                                 ENTRY    SESSION
CONNECT CHARGES                                   0.37       5.70
NETWORK CHARGES                                   0.06       0.96
SEARCH CHARGES                                    0.00      46.00
DISPLAY CHARGES                                   0.32       0.64
                                                -------    -------
FULL ESTIMATED COST                               0.75      53.30

IN FILE 'REGISTRY' AT 10:39:44 ON 12 APR 2005


=> sel l3
```

```
E25 THROUGH E38 ASSIGNED

=> s e25-e38/crn
             0 "ACRYESTER S"/CRN
             0 "BLEMMER SMA"/CRN
             0 "LIGHT ESTER S"/CRN
             0 "NK ESTER S"/CRN
             0 "OCTADECYL METHACRYLATE"/CRN
             0 "ROCRYL 330"/CRN
             0 "SR 324 (METHACRYLATE)"/CRN
             0 "SR 324"/CRN
             0 "STEARYL METHACRYLATE"/CRN
             0 112-08-3/CRN
             0 167633-23-0/CRN
          4230 32360-05-7/CRN
             0 55778-34-2/CRN
             0 59471-20-4/CRN
L13       4230 ("ACRYESTER S"/CRN OR "BLEMMER SMA"/CRN OR "LIGHT ESTER S"/CRN
               OR "NK ESTER S"/CRN OR "OCTADECYL METHACRYLATE"/CRN OR "ROCRYL
               330"/CRN OR "SR 324 (METHACRYLATE)"/CRN OR "SR 324"/CRN OR "STEA
               RYL METHACRYLATE"/CRN OR 112-08-3/CRN OR 167633-23-0/CRN OR
               32360-05-7/CRN OR 55778-34-2/CRN OR 59471-20-4/CRN)

=> sel l4
E39 THROUGH E42 ASSIGNED

=> s e39-e42/crn
             0 "ENT 8767"/CRN
             0 "N-OCTYL METHACRYLATE"/CRN
             0 "OCTYL METHACRYLATE"/CRN
           519 2157-01-9/CRN
L14        519 ("ENT 8767"/CRN OR "N-OCTYL METHACRYLATE"/CRN OR "OCTYL METHACRY
               LATE"/CRN OR 2157-01-9/CRN)

=> sel l5
E43 THROUGH E48 ASSIGNED

=> s e43-e48/crn
             0 "AMYL METHACRYLATE"/CRN
             0 "N-AMYL METHACRYLATE"/CRN
             0 "NSC 20963"/CRN
             0 "PENTYL METHACRYLATE"/CRN
             0 "PENTYL 2-METHYL-2-PROPENOATE"/CRN
           103 2849-98-1/CRN
L15        103 ("AMYL METHACRYLATE"/CRN OR "N-AMYL METHACRYLATE"/CRN OR "NSC
               20963"/CRN OR "PENTYL METHACRYLATE"/CRN OR "PENTYL 2-METHYL-2-PR
               OPENOATE"/CRN OR 2849-98-1/CRN)

=> sel l6
E49 THROUGH E55 ASSIGNED

=> s e49-e55/crn
             0 "N-PROPYL METHACRYLATE"/CRN
             0 "NSC 32624"/CRN
             0 "PROPYL METHACRYLATE"/CRN
             0 "PROPYL 2-METHYL-2-PROPENOATE"/CRN
             0 "PROPYL 2-METHYLACRYLATE"/CRN
           660 2210-28-8/CRN
             0 30110-61-3/CRN
L16        660 ("N-PROPYL METHACRYLATE"/CRN OR "NSC 32624"/CRN OR "PROPYL METHA
               CRYLATE"/CRN OR "PROPYL 2-METHYL-2-PROPENOATE"/CRN OR "PROPYL
               2-METHYLACRYLATE"/CRN OR 2210-28-8/CRN OR 30110-61-3/CRN)
```

```
=> sel l7
E56 THROUGH E59 ASSIGNED

=> s e56-e59/crn
             0 "MYRISTYL METHACRYLATE"/CRN
             0 "TETRADECYL METHACRYLATE"/CRN
             0 "1-TETRADECANOL, METHACRYLATE"/CRN
           474 2549-53-3/CRN
L17        474 ("MYRISTYL METHACRYLATE"/CRN OR "TETRADECYL METHACRYLATE"/CRN
               OR "1-TETRADECANOL, METHACRYLATE"/CRN OR 2549-53-3/CRN)

=> sel l8
E60 THROUGH E65 ASSIGNED

=> s e60-e65/crn
             0 METHOXYETHENE/CRN
             0 METHOXYETHYLENE/CRN
             0 "METHYL VINYL ETHER"/CRN
             0 "VINYL METHYL ETHER"/CRN
             0 1-METHOXYETHYLENE/CRN
           890 107-25-5/CRN
L18        890 (METHOXYETHENE/CRN OR METHOXYETHYLENE/CRN OR "METHYL VINYL ETHER
               "/CRN OR "VINYL METHYL ETHER"/CRN OR 1-METHOXYETHYLENE/CRN OR
               107-25-5/CRN)

=> sel l9
E66 THROUGH E76 ASSIGNED

=> s e66-e76/crn
             0 ETHOXYETHENE/CRN
             0 ETHOXYETHYLENE/CRN
             0 "ETHYL VINYL ETHER"/CRN
             0 ETHYLOXYETHENE/CRN
             0 EVE/CRN
             0 "NSC 8405"/CRN
             0 VINAMAR/CRN
             0 "VINYL ETHYL ETHER"/CRN
             0 1-ETHOXYETHENE/CRN
             0 1-ETHOXYETHYLENE/CRN
          2491 109-92-2/CRN
L19       2491 (ETHOXYETHENE/CRN OR ETHOXYETHYLENE/CRN OR "ETHYL VINYL ETHER"/C
               RN OR ETHYLOXYETHENE/CRN OR EVE/CRN OR "NSC 8405"/CRN OR VINAMAR
               /CRN OR "VINYL ETHYL ETHER"/CRN OR 1-ETHOXYETHENE/CRN OR 1-ETHOX
               YETHYLENE/CRN OR 109-92-2/CRN)

=> sel l10
E77 THROUGH E88 ASSIGNED

=> s e77-e88/crn
             0 BUTOXYETHENE/CRN
             0 BUTOXYETHYLENE/CRN
             0 "BUTYL VINYL ETHER"/CRN
             0 BVE/CRN
             0 "N-BUTYL VINYL ETHER"/CRN
             0 "NSC 8264"/CRN
             0 "VINYL BUTYL ETHER"/CRN
             0 "VINYL N-BUTYL ETHER"/CRN
             0 "1-(ETHENYLOXY)BUTANE"/CRN
             0 "1-(VINYLOXY)BUTANE"/CRN
             0 1-BUTOXYETHENE/CRN
           848 111-34-2/CRN
```

```
L20         848 (BUTOXYETHENE/CRN OR BUTOXYETHYLENE/CRN OR "BUTYL VINYL ETHER"/C
                RN OR BVE/CRN OR "N-BUTYL VINYL ETHER"/CRN OR "NSC 8264"/CRN OR
                "VINYL BUTYL ETHER"/CRN OR "VINYL N-BUTYL ETHER"/CRN OR "1-(ETHE
                NYLOXY)BUTANE"/CRN OR "1-(VINYLOXY)BUTANE"/CRN OR 1-BUTOXYETHENE
                /CRN OR 111-34-2/CRN)

=> fil stnguide
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       5.03      57.58

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr  8, 2005 (20050408/UP).

=> s 80-62-6/crn or 97-63-2/crn or l11 or 88-12-0/crn or 1484-13-5/crn or 75-10-4/crn or 107-13-
'CRN' IS NOT A VALID FIELD CODE
             0 80-62-6/CRN
             0 97-63-2/CRN
             0 "ISOPROPYL METHACRYLATE"/CRN
             0 "ISOPROPYL 2-METHYL-2-PROPENOATE"/CRN
             0 "ISOPROPYL 2-METHYLACRYLATE"/CRN
             0 "NSC 32625"/CRN
             0 "1-METHYLETHYL 2-METHYLPROPENOATE"/CRN
             0 4655-34-9/CRN
             0 88-12-0/CRN
             0 1484-13-5/CRN
             0 75-10-4/CRN
             0 107-13-1/CRN
             0 116-15-4/CRN
L21          0 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5/CR
               N OR 75-10-4/CRN OR 107-13-1/CRN OR 116-15-4/CRN

=> fil reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.18      57.76

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STRUCTURE FILE UPDATES:   11 APR 2005  HIGHEST RN 848290-51-7
DICTIONARY FILE UPDATES:  11 APR 2005  HIGHEST RN 848290-51-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*************************************************************************
*                                                                       *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
```

```
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> s 80-62-6/crn or 97-63-2/crn or l11 or 88-12-0/crn or 1484-13-5/crn or 75-10-4/crn or 107-13-1
         69117 80-62-6/CRN
          5270 97-63-2/CRN
          8123 88-12-0/CRN
           824 1484-13-5/CRN
             0 75-10-4/CRN
         18187 107-13-1/CRN
          1796 116-15-4/CRN
L22      97008 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5/CR
               N OR 75-10-4/CRN OR 107-13-1/CRN OR 116-15-4/CRN

=> fil stnguide
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   0.43      58.19

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr  8, 2005 (20050408/UP).

=> fil reg; s 141-32-2/crn or 97-88-1/crn or l12 or 106-91-2/crn or l13 or l14 or l15 or l16 or
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   0.12      58.31

FILE 'REGISTRY' ENTERED AT 10:45:21 ON 12 APR 2005
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STRUCTURE FILE UPDATES:   11 APR 2005  HIGHEST RN 848290-51-7
DICTIONARY FILE UPDATES:  11 APR 2005  HIGHEST RN 848290-51-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
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*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
```

```
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html


         43257 141-32-2/CRN
         19564 97-88-1/CRN
         16857 106-91-2/CRN
         13705 108-05-4/CRN
L23      92191 141-32-2/CRN OR 97-88-1/CRN OR L12 OR 106-91-2/CRN OR L13 OR
               L14 OR L15 OR L16 OR L17 OR L18 OR L19 OR L20 OR 108-05-4/CRN

=> s 79-41-4/crn or 79-10-7/crn or 140-10-3/crn or 24615-84-7/crn
         43206 79-41-4/CRN
         55965 79-10-7/CRN
            86 140-10-3/CRN
           721 24615-84-7/CRN
L24      94944 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR 24615-84-7/CRN

=> fil stnguide
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 0.86      59.17

FILE 'STNGUIDE' ENTERED AT 10:46:15 ON 12 APR 2005
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr  8, 2005 (20050408/UP).

=> fil ca; methylchloroacrylic acid
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 0.06      59.23

FILE 'CA' ENTERED AT 10:46:46 ON 12 APR 2005
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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 16
FILE LAST UPDATED: 7 Apr 2005  (20050407/ED)
```

```
  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


METHYLCHLOROACRYLIC IS NOT A RECOGNIZED COMMAND
The previous command name entered was not recognized by the system.
For a list of commands available to you in the current file, enter
"HELP COMMANDS" at an arrow prompt (=>).

=> s methylchloroacrylic acid
             0 METHYLCHLOROACRYLIC
       3913380 ACID
L25          0 METHYLCHLOROACRYLIC ACID
                 (METHYLCHLOROACRYLIC(W)ACID)

=> fil stnguide
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       4.03      63.26

FILE 'STNGUIDE' ENTERED AT 10:47:07 ON 12 APR 2005
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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr  8, 2005 (20050408/UP).

=> fil reg
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                         ENTRY    SESSION
FULL ESTIMATED COST                                       0.06      63.32

FILE 'REGISTRY' ENTERED AT 10:47:16 ON 12 APR 2005
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STRUCTURE FILE UPDATES:   11 APR 2005  HIGHEST RN 848290-51-7
DICTIONARY FILE UPDATES:  11 APR 2005  HIGHEST RN 848290-51-7

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*************************************************************************
*                                                                       *
* The CA roles and document type information have been removed from     *
* the IDE default display format and the ED field has been added,       *
* effective March 20, 2005.  A new display format, IDERL, is now        *
* available and contains the CA role and document type information.     *
*                                                                       *
*************************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.
```
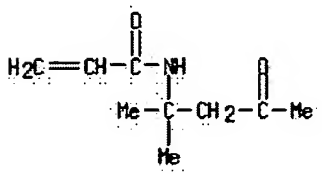
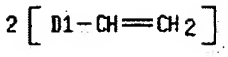

```
Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> d his

     (FILE 'HOME' ENTERED AT 10:30:44 ON 12 APR 2005)

     FILE 'REGISTRY' ENTERED AT 10:31:06 ON 12 APR 2005
                E ISOPROPYL METHACRYLATE/CN
L1              1 S E3
                E METHYLCHLOROACRYLIC ACID/CN
                E CHLOROMETHYLACRYLIC ACID/CN
                E VINYLFORMAL/CN
                E DODECYL METHACRYLATE/CN
L2              1 S E3
                E OCTADECYL METHACRYLATE/CN
L3              1 S E3
                E OCTYL METHACRYLATE/CN
L4              1 S E3
                E PENTYL METHACRYLATE/CN
L5              1 S E3
                E PROPYL METHACRYLATE/CN
L6              1 S E3
                E TETRADECYL METHACRYLATE/CN
L7              1 S E3
                E VINYLMETHYLETHER/CN
                E VINYL METHYL ETHER/CN
L8              1 S E3
                E VINYL ETHYL ETHER/CN
L9              1 S E3
                E VINYL BUTYL ETHER/CN
L10             1 S E3

     FILE 'REGISTRY' ENTERED AT 10:36:35 ON 12 APR 2005

     FILE 'CA' ENTERED AT 10:37:19 ON 12 APR 2005

     FILE 'REGISTRY' ENTERED AT 10:37:37 ON 12 APR 2005
                SEL L1
L11           315 S E1-E6/CRN

     FILE 'CA' ENTERED AT 10:38:53 ON 12 APR 2005

     FILE 'REGISTRY' ENTERED AT 10:39:07 ON 12 APR 2005
                SEL L2
L12          6017 S E7-E24/CRN
                SEL L3
L13          4230 S E25-E38/CRN
                SEL L4
L14           519 S E39-E42/CRN
                SEL L5
L15           103 S E43-E48/CRN
                SEL L6
L16           660 S E49-E55/CRN
                SEL L7
L17           474 S E56-E59/CRN
                SEL L8
L18           890 S E60-E65/CRN
                SEL L9
L19          2491 S E66-E76/CRN
```

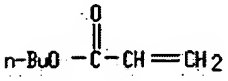
```
                SEL L10
L20           848 S E77-E88/CRN

     FILE 'STNGUIDE' ENTERED AT 10:42:17 ON 12 APR 2005
L21             0 S 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5

     FILE 'REGISTRY' ENTERED AT 10:43:55 ON 12 APR 2005
L22         97008 S 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5

     FILE 'STNGUIDE' ENTERED AT 10:44:17 ON 12 APR 2005

     FILE 'REGISTRY' ENTERED AT 10:45:21 ON 12 APR 2005
L23         92191 S 141-32-2/CRN OR 97-88-1/CRN OR L12 OR 106-91-2/CRN OR L13 OR
L24         94944 S 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR 24615-84-7/CRN

     FILE 'STNGUIDE' ENTERED AT 10:46:15 ON 12 APR 2005

     FILE 'CA' ENTERED AT 10:46:46 ON 12 APR 2005
L25             0 S METHYLCHLOROACRYLIC ACID

     FILE 'STNGUIDE' ENTERED AT 10:47:07 ON 12 APR 2005

     FILE 'REGISTRY' ENTERED AT 10:47:16 ON 12 APR 2005

=> s l24 and l22 and l23 and pms/ci
       1060071 PMS/CI
L26      17116 L24 AND L22 AND L23 AND PMS/CI

=> d scan

L26  17116 ANSWERS   REGISTRY  COPYRIGHT 2005 ACS on STN
IN   2-Propenoic acid, 2-methyl-, methyl ester, polymer with butyl
     2-propenoate, diethenylbenzene, N-(1,1-dimethyl-3-oxobutyl)-2-propenamide,
     ethenylbenzene, 2-ethylhexyl 2-propenoate, oxirane, oxiranylmethyl
     2-methyl-2-propenoate and 2-propenoic acid, graft (9CI)
MF   (C11 H20 O2 . C10 H10 . C9 H15 N O2 . C8 H8 . C7 H12 O2 . C7 H10 O3 . C5
     H8 O2 . C3 H4 O2 . C2 H4 O)x
CI   PMS

     CM   1
```



```
     CM   2
```



CM 3



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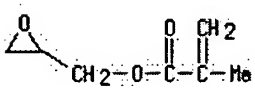

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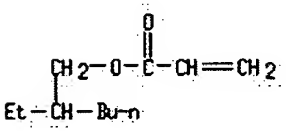
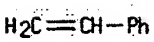
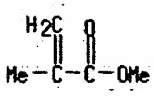


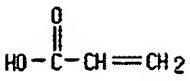
CM 6



CM 7



CM 8

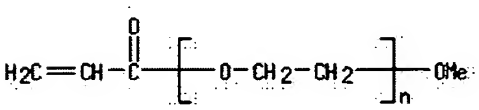


CM 9

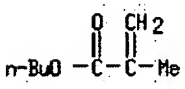
HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L26 17116 ANSWERS REGISTRY COPYRIGHT 2005 ACS on STN
IN 2-Propenoic acid, 2-methyl-, polymer with butyl 2-methyl-2-propenoate, methyl 2-methyl-2-propenoate and α-(1-oxo-2-propenyl)-ω-methoxypoly(oxy-1,2-ethanediyl), graft (9CI)
MF (C8 H14 O2 . C5 H8 O2 . C4 H6 O2 . (C2 H4 O)n C4 H6 O2)x
CI **PMS**

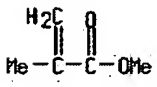
CM 1



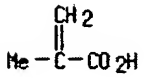
CM 2



CM 3



CM 4



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HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)end

=> d his

     (FILE 'HOME' ENTERED AT 10:30:44 ON 12 APR 2005)

     FILE 'REGISTRY' ENTERED AT 10:31:06 ON 12 APR 2005
                E ISOPROPYL METHACRYLATE/CN
L1            1 S E3
                E METHYLCHLOROACRYLIC ACID/CN
                E CHLOROMETHYLACRYLIC ACID/CN
                E VINYLFORMAL/CN
                E DODECYL METHACRYLATE/CN
L2            1 S E3
                E OCTADECYL METHACRYLATE/CN
L3            1 S E3
                E OCTYL METHACRYLATE/CN
L4            1 S E3
                E PENTYL METHACRYLATE/CN
L5            1 S E3
                E PROPYL METHACRYLATE/CN
L6            1 S E3
                E TETRADECYL METHACRYLATE/CN
L7            1 S E3
                E VINYLMETHYLETHER/CN
                E VINYL METHYL ETHER/CN
L8            1 S E3
                E VINYL ETHYL ETHER/CN
L9            1 S E3
                E VINYL BUTYL ETHER/CN
L10           1 S E3

     FILE 'REGISTRY' ENTERED AT 10:36:35 ON 12 APR 2005

     FILE 'CA' ENTERED AT 10:37:19 ON 12 APR 2005

     FILE 'REGISTRY' ENTERED AT 10:37:37 ON 12 APR 2005
                SEL L1
L11         315 S E1-E6/CRN

     FILE 'CA' ENTERED AT 10:38:53 ON 12 APR 2005

     FILE 'REGISTRY' ENTERED AT 10:39:07 ON 12 APR 2005
                SEL L2
L12        6017 S E7-E24/CRN
                SEL L3
L13        4230 S E25-E38/CRN
                SEL L4
L14         519 S E39-E42/CRN
                SEL L5
L15         103 S E43-E48/CRN
                SEL L6
L16         660 S E49-E55/CRN
                SEL L7
L17         474 S E56-E59/CRN
                SEL L8
L18         890 S E60-E65/CRN
                SEL L9
L19        2491 S E66-E76/CRN
                SEL L10
L20         848 S E77-E88/CRN
```

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     FILE 'STNGUIDE' ENTERED AT 10:42:17 ON 12 APR 2005
L21           0 S 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5

     FILE 'REGISTRY' ENTERED AT 10:43:55 ON 12 APR 2005
L22       97008 S 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5

     FILE 'STNGUIDE' ENTERED AT 10:44:17 ON 12 APR 2005

     FILE 'REGISTRY' ENTERED AT 10:45:21 ON 12 APR 2005
L23       92191 S 141-32-2/CRN OR 97-88-1/CRN OR L12 OR 106-91-2/CRN OR L13 OR
L24       94944 S 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR 24615-84-7/CRN

     FILE 'STNGUIDE' ENTERED AT 10:46:15 ON 12 APR 2005

     FILE 'CA' ENTERED AT 10:46:46 ON 12 APR 2005
L25           0 S METHYLCHLOROACRYLIC ACID

     FILE 'STNGUIDE' ENTERED AT 10:47:07 ON 12 APR 2005

     FILE 'REGISTRY' ENTERED AT 10:47:16 ON 12 APR 2005
L26       17116 S L24 AND L22 AND L23 AND PMS/CI

=> fil ca; s l26
COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                     ENTRY    SESSION
FULL ESTIMATED COST                                   5.46      68.78

FILE 'CA' ENTERED AT 10:48:24 ON 12 APR 2005
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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 16
FILE LAST UPDATED: 7 Apr 2005  (20050407/ED)

  This file contains CAS Registry Numbers for easy and accurate
  substance identification.


L27       14247 L26

=> s l27 and toner
          29950 TONER
L28         302 L27 AND TONER

=> s l28 and electrophotog?
          63903 ELECTROPHOTOG?
L29         272 L28 AND ELECTROPHOTOG?

=> fil reg
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COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     4.46      73.24

FILE 'REGISTRY' ENTERED AT 10:49:33 ON 12 APR 2005
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Property values tagged with IC are from the ZIC/VINITI data file
provided by InfoChem.

STRUCTURE FILE UPDATES:   11 APR 2005  HIGHEST RN 848290-51-7
DICTIONARY FILE UPDATES:  11 APR 2005  HIGHEST RN 848290-51-7

TSCA INFORMATION NOW CURRENT THROUGH JANUARY 18, 2005

  Please note that search-term pricing does apply when
  conducting SmartSELECT searches.

*********************************************************************
*                                                                   *
* The CA roles and document type information have been removed from *
* the IDE default display format and the ED field has been added,   *
* effective March 20, 2005.  A new display format, IDERL, is now    *
* available and contains the CA role and document type information. *
*                                                                   *
*********************************************************************

Crossover limits have been increased.  See HELP CROSSOVER for details.

Experimental and calculated property data are now available. For more
information enter HELP PROP at an arrow prompt in the file or refer
to the file summary sheet on the web at:
http://www.cas.org/ONLINE/DBSS/registryss.html

=> save l22 a658811a/q
QUERY L22 HAS BEEN SAVED AS 'A658811A/Q'

=> save l23 a658811b/q
QUERY L23 HAS BEEN SAVED AS 'A658811B/Q'

=> save l24 a658811c/q
QUERY L24 HAS BEEN SAVED AS 'A658811C/Q'

=> fil ca
COST IN U.S. DOLLARS                                SINCE FILE      TOTAL
                                                       ENTRY    SESSION
FULL ESTIMATED COST                                     1.29      74.53

FILE 'CA' ENTERED AT 10:51:17 ON 12 APR 2005
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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 16
FILE LAST UPDATED: 7 Apr 2005 (20050407/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

=> d scan

L29 272 ANSWERS CA COPYRIGHT 2005 ACS on STN
IC ICM G03G009-087
NCL 430109000
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
TI Resin composition for **electrophotographic toner**
ST **electrophotog toner** vinyl copolymer polyester urethane
IT **Electrophotographic** toners
(contg. vinyl copolymers and thermoplastic polyester urethanes)
IT Vinyl compounds, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(copolymers; **electrophotog**. toners contg. thermoplastic polyester urethanes and)
IT Carbon black, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(**electrophotog**. toners contg. thermoplastic polyester urethanes, vinyl copolymers and)
IT Urethane rubber, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(polyester-; **electrophotog**. toners contg. vinyl copolymers and)
IT Polyurethanes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(polyester-; **electrophotog**. toners contg. vinyl copolymers and thermoplastic)
IT 79-41-4DP, polymers with (meth)acrylates and polyester-urethane rubber, graft 80-62-6DP, polymers with (meth)acrylates and polyester-urethane rubber, graft 97-88-1DP, polymers with (meth)acrylates and polyester-urethane rubber, graft 100-42-5DP, polymers with (meth)acrylates and polyester-urethane rubber, graft 103-11-7DP, polymers with (meth)acrylates and polyester-urethane rubber, graft **219790-31-5P** 219790-40-6P 219790-54-2P **219790-57-5P** 219790-75-7P **219791-49-8P** 219791-50-1P 219791-70-5P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**electrophotog**. **toner** resin compn. contg. vinyl copolymers and thermoplastic polyester urethanes)
IT 9010-79-1, Viscol 550P 84179-66-8
RL: TEM (Technical or engineered material use); USES (Uses)
(**electrophotog**. toners contg. thermoplastic polyester urethanes, vinyl copolymers and)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L29 272 ANSWERS CA COPYRIGHT 2005 ACS on STN
IC ICM G03G009-13
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
TI Electrostatographic liquid developers with improved antioffset properties

ST electrostatog liq developer viscosity silicone; elasticity electrostatog liq developer; surface tension **electrophotog** liq developer
IT Siloxanes and Silicones, uses
RL: USES (Uses)
(**electrophotog**. liq. developers contg., KF 96)
IT Carbon black, uses
RL: USES (Uses)
(electrostatog. liq. developers contg. silicone and, MA 60)
IT Alkanes, uses
RL: USES (Uses)
(C9-12-iso-, electrostatog. liq. developers contg., with silicones)
IT Polyesters, uses
RL: USES (Uses)
(amino-contg., electrostatog. liq. developers contg., with silicones)
IT **Electrophotographic** developers
(liq., contg. silicone solvents of controlled viscosity and elasticity)
IT 9002-88-4, Polyethylene 9003-20-7, Poly(vinyl acetate) 24937-78-8, Evaflex 210 **25068-63-7** 62611-26-1, Epolene E 10 91316-55-1, OA WAX **121462-57-5**
RL: USES (Uses)
(electrostatog. liq. developers contg., with silicones)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L29 272 ANSWERS CA COPYRIGHT 2005 ACS on STN
IC G03G009-08; G03G009-10; G03G009-14; G03G013-08; G03G013-09; G03G013-22; C08L023-00; C08L025-06; C08L033-08; C08L051-06
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
TI Developer compositions
ST pressure fixing magnetic developer **electrophotog**; electrog electrostatic recording developer
IT Electrography
(developers for, pressure-fixing type)
IT Recording materials
(electrostatic, pressure-fixing type developer for)
IT Rubber, butadiene-styrene, uses and miscellaneous
RL: USES (Uses)
(hydrogenated, triblock, pressure-fixing type developer for electrostatic latent images contg.)
IT Carbon black, uses and miscellaneous
Polyesters, uses and miscellaneous
RL: USES (Uses)
(pressure-fixing type developers for electrostatic latent images contg.)
IT Photography, electro-, developers
(toners, pressure-fixing type)
IT 1309-38-2, uses and miscellaneous 9003-53-6 24937-78-8 25119-62-4 50645-48-2, uses and miscellaneous **56793-67-0** 70777-48-9 80450-51-7
RL: USES (Uses)
(pressure-fixing type developer for electrostatic latent images contg.)
IT 9003-55-8
RL: USES (Uses)
(rubber, butadiene-styrene; hydrogenated, triblock, pressure-fixing type developer for electrostatic latent images contg.)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L29 272 ANSWERS CA COPYRIGHT 2005 ACS on STN
IC ICM G03G009-087
ICS G03G009-09; G03G009-08

CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 38
TI Resin composition of **electrophotographic toner** and dry **toner** comprising it
ST **electrophotog** dry **toner** polyester; polyolefin vinyl graft copolymer **toner** resin; wax **electrophotog** dry **toner** compn
IT Paraffin waxes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(Sazol wax; **electrophotog**. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)
IT **Electrophotographic** toners
(**electrophotog**. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)
IT Carnauba wax
Polyesters, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(**electrophotog**. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)
IT Phenolic resins, preparation
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(novolak, ethylene oxide adduct, polyesters; **electrophotog**. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)
IT 110-17-8DP, Fumaric acid, polyesters 552-30-7DP, Trimellitic anhydride, polyesters 32492-61-8DP, polyesters 37353-75-6DP, Bisphenol A-propylene oxide adduct (1:2), polyesters 79293-17-7P 96360-62-2P 99546-37-9P 168638-93-5P **260786-90-1P** 359011-20-4P
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**electrophotog**. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)
IT 9010-79-1, Viscol 550P
RL: TEM (Technical or engineered material use); USES (Uses)
(**electrophotog**. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L29 272 ANSWERS CA COPYRIGHT 2005 ACS on STN
IC ICM G03G009-087
ICS C08L101-08
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
Section cross-reference(s): 38
TI Electrostatographic developer **toner** with excellent fixability and anti-offset property
ST electrostatog developer **toner**; metal salt polymer electrostatog developer
IT **Electrophotographic** developers
(two-component, toners, ionomer resins)
IT 1305-62-0DP, Calcium hydroxide, reaction product with n-Bu acrylate-Me methacrylate-methacrylic acid-styrene copolymer **25987-66-0DP**, Butyl acrylate-methyl methacrylate-methacrylic acid-styrene copolymer, reaction product with aluminum chelate
RL: IMF (Industrial manufacture); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrostatog. developer **toner** with excellent fixability and anti-offset property)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1).

L29 272 ANSWERS CA COPYRIGHT 2005 ACS on STN
IC ICM G03G009-08
CC 74-3 (Radiation Chemistry, Photochemistry, and Photographic and Other Reprographic Processes)
TI Electrostatographic heat-fixable microcapsule toners
ST electrostatog heat fixing **toner** microcapsule
IT Paraffin waxes and Hydrocarbon waxes, uses and miscellaneous
Polyesters, uses and miscellaneous
RL: USES (Uses)
(nonlinear, binders, electrostatog. heat-fixable microcapsule toners with core particles contg.)
IT Electrography
(developers, toners, microencapsulated, heat-fixable, core particles contg. nonlinear polyester and wax for)
IT Fatty acids, esters
RL: USES (Uses)
(montan-wax, esters, with ethylene glycol, binders, electrostatog. heat-fixable microcapsule toners with core particles contg.)
IT Plastics
RL: USES (Uses)
(thermo-, electrostatog. heat-fixable microcapsule toners with shell materials from)
IT **Electrophotographic** developers
(toners, microencapsulated, heat-fixable, core particles contg. nonlinear polyester and wax for)
IT 83123-11-9 111287-25-3
RL: USES (Uses)
(binders, electrostatog. heat-fixable microcapsule toners with core particles contg.)
IT **27306-39-4**, Acrylic acid butyl acrylatemethyl methacrylate-styrene copolymer
RL: USES (Uses)
(electrostatog. heat-fixable microcapsule toners with shell materials from thermoplastic)

HOW MANY MORE ANSWERS DO YOU WISH TO SCAN? (1)end

=> d his

(FILE 'HOME' ENTERED AT 10:30:44 ON 12 APR 2005)

FILE 'REGISTRY' ENTERED AT 10:31:06 ON 12 APR 2005
E ISOPROPYL METHACRYLATE/CN
L1 1 S E3
E METHYLCHLOROACRYLIC ACID/CN
E CHLOROMETHYLACRYLIC ACID/CN
E VINYLFORMAL/CN
E DODECYL METHACRYLATE/CN
L2 1 S E3
E OCTADECYL METHACRYLATE/CN
L3 1 S E3
E OCTYL METHACRYLATE/CN
L4 1 S E3
E PENTYL METHACRYLATE/CN
L5 1 S E3
E PROPYL METHACRYLATE/CN
L6 1 S E3
E TETRADECYL METHACRYLATE/CN
L7 1 S E3
E VINYLMETHYLETHER/CN
E VINYL METHYL ETHER/CN
L8 1 S E3

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                E VINYL ETHYL ETHER/CN
L9            1 S E3
                E VINYL BUTYL ETHER/CN
L10           1 S E3

     FILE 'REGISTRY' ENTERED AT 10:36:35 ON 12 APR 2005

     FILE 'CA' ENTERED AT 10:37:19 ON 12 APR 2005

     FILE 'REGISTRY' ENTERED AT 10:37:37 ON 12 APR 2005
                SEL L1
L11         315 S E1-E6/CRN

     FILE 'CA' ENTERED AT 10:38:53 ON 12 APR 2005

     FILE 'REGISTRY' ENTERED AT 10:39:07 ON 12 APR 2005
                SEL L2
L12        6017 S E7-E24/CRN
                SEL L3
L13        4230 S E25-E38/CRN
                SEL L4
L14         519 S E39-E42/CRN
                SEL L5
L15         103 S E43-E48/CRN
                SEL L6
L16         660 S E49-E55/CRN
                SEL L7
L17         474 S E56-E59/CRN
                SEL L8
L18         890 S E60-E65/CRN
                SEL L9
L19        2491 S E66-E76/CRN
                SEL L10
L20         848 S E77-E88/CRN

     FILE 'STNGUIDE' ENTERED AT 10:42:17 ON 12 APR 2005
L21           0 S 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5

     FILE 'REGISTRY' ENTERED AT 10:43:55 ON 12 APR 2005
L22       97008 S 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5

     FILE 'STNGUIDE' ENTERED AT 10:44:17 ON 12 APR 2005

     FILE 'REGISTRY' ENTERED AT 10:45:21 ON 12 APR 2005
L23       92191 S 141-32-2/CRN OR 97-88-1/CRN OR L12 OR 106-91-2/CRN OR L13 OR
L24       94944 S 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR 24615-84-7/CRN

     FILE 'STNGUIDE' ENTERED AT 10:46:15 ON 12 APR 2005

     FILE 'CA' ENTERED AT 10:46:46 ON 12 APR 2005
L25           0 S METHYLCHLOROACRYLIC ACID

     FILE 'STNGUIDE' ENTERED AT 10:47:07 ON 12 APR 2005

     FILE 'REGISTRY' ENTERED AT 10:47:16 ON 12 APR 2005
L26       17116 S L24 AND L22 AND L23 AND PMS/CI

     FILE 'CA' ENTERED AT 10:48:24 ON 12 APR 2005
L27       14247 S L26
L28         302 S L27 AND TONER
L29         272 S L28 AND ELECTROPHOTOG?
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     FILE 'REGISTRY' ENTERED AT 10:49:33 ON 12 APR 2005
                SAVE L22 A658811A/Q
                SAVE L23 A658811B/Q
                SAVE L24 A658811C/Q

     FILE 'CA' ENTERED AT 10:51:17 ON 12 APR 2005

=> s l27 (p) (binder or resin) and toner
        165256 BINDER
        541443 RESIN
          2200 L27 (P) (BINDER OR RESIN)
         29950 TONER
L30         80 L27 (P) (BINDER OR RESIN) AND TONER

=> d fbib kwic 1-10

L30  ANSWER 1 OF 80  CA  COPYRIGHT 2005 ACS on STN
Full Text
AN   141:322523  CA
TI   A toner for electrostatic latent image development with binder resin
     build from hydropholic monomer and monomers with high- and low glass
     transition temperatures
IN   Matsumura, Yasuo; Yanagida, Kazuhiko; Serizawa, Manabu; Yaguchi, Hidekazu;
     Kubo, Tsutomu; Seitoku, Shigeru
PA   Fuji Xerox Co., Ltd., Japan
SO   U.S. Pat. Appl. Publ., 16 pp.
     CODEN: USXXCO
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.           KIND   DATE        APPLICATION NO.         DATE
     ---------------      ----   --------    --------------------    --------
PI   US 2004191662         A1    20040930    US 2003-658811          20030910
                                              JP 2003-79277       A   20030324
     JP 2004287114         A2    20041014    JP 2003-79277           20030324
     EP 1471393            A2    20041027    EP 2003-256088          20030927
         R:  AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT,
             IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK
                                              JP 2003-79277       A   20030324
TI   A toner for electrostatic latent image development with binder resin
     build from hydropholic monomer and monomers with high- and low glass
     transition temperatures
AB   A toner for electrostatic latent image development is described that
     does not emit odor or volatile compds., has excellent fixing properties
     such as resistance to hot offseting and surface glossiness of a fixed
     image, excellent develop,ing and image transfer properties and provides
     high quality durable color images having excellent light resistance.  The
     toner major component is a binder copolymer comprised of a high Tg
     monomer (glass transition temp. ≥ 50° C), a low Tg monomer (
     glass transition temp. ≤ 50° C), and a hydrophilic monomer.
ST   electrostatic latent image toner binder copolymer glass transition temp;
     electrophotog developer toner binder copolymer glass transition temp
IT   Surfactants
        (anionic; prepn. of binder resin dispersion contg. hydrophilic monomer
        and monomers with high- and low glass transition temps. toner
        for electrostatic toner)
IT   Ferrites
     RL: TEM (Technical or engineered material use); USES (Uses)
        (carrier; electrostatic latent image development using toner
        with binder resin contg. hydrophilic monomer and monomers with high-
        and low glass transition temps.)
IT   Glass transition temperature
```

Particle size
(prepn. of binder resin dispersion contg. hydrophilic monomer and monomers with high- and low glass transition temps. **toner** for electrostatic **toner**)

IT Paraffin waxes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(releasing agent; electrostatic latent image development using **toner** with binder resin contg. hydrophilic monomer and monomers with high- and low glass transition temps.)

IT Electrographic toners
Electrophotographic toners
(**toner** for electrostatic latent image development with binder resin contg. hydrophilic monomer and monomers with high- and low glass transition temps.)

IT 11067-82-6, Neogen R
RL: TEM (Technical or engineered material use); USES (Uses)
(Neogen R, colorant dispersion; electrostatic latent image development using **toner** with binder resin contg. hydrophilic monomer and monomers with high- and low glass transition temps.)

IT 980-26-7, Pigment Red 122
RL: TEM (Technical or engineered material use); USES (Uses)
(Pigment Red 122, colorant dispersion; electrostatic latent image development using **toner** with binder resin contg. hydrophilic monomer and monomers with high- and low glass transition temps.)

IT 5580-57-4, Pigment Yellow 93
RL: TEM (Technical or engineered material use); USES (Uses)
(Pigment Yellow 93, colorant dispersion; electrostatic latent image development using **toner** with binder resin contg. hydrophilic monomer and monomers with high- and low glass transition temps.)

IT 147-14-8, Pigment blue 15:3
RL: TEM (Technical or engineered material use); USES (Uses)
(Pigment blue 15:3, colorant dispersion; electrostatic latent image development using **toner** with binder resin contg. hydrophilic monomer and monomers with high- and low glass transition temps.)

IT 25852-37-3P, Butyl acrylate-methyl methacrylate copolymer 765949-82-4P, Butyl acrylate-carboxymethyl acrylate-methyl methacrylate copolymer **765949-83-5P**, Acrylic acid-Butyl acrylate-isopropyl methacrylate copolymer 765949-84-6P, Butyl acrylate-ethyl acrylate-2-carboxyethyl acrylate-glycidyl methacrylate copolymer 765949-85-7P, Butyl acrylate-carboxymethyl acrylate-styrene copolymer
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**binder** dispersion; **toner** for electrostatic latent image development with **binder resin** contg. hydrophilic monomer and monomers with high- and low glass transition temps.)

IT 9011-14-7, PMMA
RL: TEM (Technical or engineered material use); USES (Uses)
(carrier coating; electrostatic latent image development using **toner** with binder resin contg. hydrophilic monomer and monomers with high- and low glass transition temps.)

IT 1322-36-7, Dodecanethiol 61332-13-6, Dowfax
RL: PEP (Physical, engineering or chemical process); PYP (Physical process); TEM (Technical or engineered material use); PROC (Process); USES (Uses)
(prepn. of binder resin dispersion contg. hydrophilic monomer and monomers with high- and low glass transition temps. **toner** for electrostatic **toner**)

L30 ANSWER 2 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 141:131217 CA

TI Organosol liquid **toner** including amphipathic copolymeric binder having crosslinkable functionality
IN Herman, Gay L.; Baker, James A.; Qian, Julie Y.
PA Samsung Electronics Co., Ltd., S. Korea
SO Eur. Pat. Appl., 35 pp.
CODEN: EPXXDW
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI EP 1437630	A1	20040714	EP 2004-250005		20040102
R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, SI, LT, LV, FI, RO, MK, CY, AL, TR, BG, CZ, EE, HU, SK					
			US 2003-437881P	P	20030103
			US 2003-691191	A	20031022
US 2004142270	A1	20040722	US 2003-691191		20031022
			US 2003-437881P	P	20030103
JP 2004213018	A2	20040729	JP 2004-580		20040105
			US 2003-437881P	P	20030103
			US 2003-691191	A	20031022

RE.CNT 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

TI Organosol liquid **toner** including amphipathic copolymeric binder having crosslinkable functionality

AB The present invention provides liq. **toner** compns. having utility in electrog. applications. Organosol liq. **toner** compns. comprise binder particles dispersed in a nonaq. liq. carrier, wherein the particles are derived from ingredients comprising one or more crosslinkable amphipathic copolymer(s). The organosol is easily combined with addnl. ingredients, such as one or more visual enhancement additives and other desired ingredients, and subjected to mixing processes to form a liq. **toner** compn. Methods of making and electrog. printing liq. toners derived from these organosols are also described. Specifically, the present invention provides a liq. electrog. **toner** compn. comprising: (a) a liq. carrier having a Kauri-Butanol no. less than 30; and (b) a plurality of **toner** particles dispersed in the liq. carrier, wherein the **toner** particles comprise complementary crosslinkable functionalities and at least one amphipathic copolymer comprising one or more S material portions and one or more D material portions, and wherein at least a portion of the crosslinkable functionalities are incorporated into the amphipathic copolymer, and a liq. electrog. **toner** compn. comprising: (a) a liq. carrier having a Kauri-Butanol no. less than 30; and (b) a first plurality of **toner** particles dispersed in the liq. carrier, wherein the first plurality of **toner** particles comprise a first amphipathic copolymer comprising one or more S material portions and one or more D material portions, and wherein the first amphipathic copolymer comprises a first crosslinkable functionality; and (c) a second plurality of **toner** particles dispersed in the liq. carrier, wherein the second plurality of **toner** particles comprise a second amphipathic copolymer comprising one or more S material portions and one or more D material portions. Wherein the second amphipathic copolymer comprises a second crosslinkable functionality, a method of making a liq. electrog. **toner** compn. comprising steps of: (a) providing an organosol comprising a plurality of **toner** particles dispersed in a liq. carrier, wherein the **toner** particles comprise at least one amphipathic copolymer, wherein the amphipathic copolymer comprises one or more S material portions and one or more D material portions, and wherein the amphipathic copolymer comprises crosslinkable functionality; and (b) mixing the organosol with one or more additives under conditions effective to form a dispersion, and a method of electrog. forming an image on a substrate surface comprising steps of: (a) providing a liq. **toner** compn., the liq. **toner** compn. comprising an

organosol, wherein the organosol comprises a plurality of **toner** particles dispersed in a liq. carrier, wherein the **toner** particles comprise at least one amphipathic copolymer comprising one or more S material portions and one or more D material portions, wherein the amphipathic copolymer comprises crosslinkable functionality; (b) causing an image comprising the **toner** particles to be formed on the substrate surface; and (c) crosslinking the amphipathic copolymer.

ST electrophotog organosol liq **toner** amphipathic copolymeric binder crosslinkable functionality

IT Electrophotographic photoconductors (photoreceptors)
Electrophotographic toners
(organosol liq. **toner** including amphipathic copolymeric **binder** having crosslinkable functionality)

IT 189310-85-8P 721923-98-4P 721923-99-5P 721924-00-1P
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(organosol liq. **toner** including amphipathic copolymeric **binder** having crosslinkable functionality)

IT 688320-52-7P 721426-97-7P, Behenyl acrylate-Diacetone acrylamide-ethyl methacrylate copolymer **721426-98-8P**, Behenyl acrylate-ethyl methacrylate-methacrylic acid copolymer 721426-99-9P, Behenyl acrylate-ethyl methacrylate-glycidyl methacrylate copolymer 725737-01-9P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(organosol liq. **toner** including amphipathic copolymeric **binder** having crosslinkable functionality)

L30 ANSWER 3 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 141:31044 CA
TI Colored resin particles containing oil-soluble dyes, and their manufacture
IN Shibai, Yasuhiro; Adachi, Katsumi; Nakano, Shinichi
PA Sharp Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2004161824	A2	20040610	JP 2002-326781	20021111
				JP 2002-326781	20021111

AB The colored resin particles, useful for electrophotog. toners, inks, etc., are manufd. by mixing resin particles with oil-sol. dyes in supercrit. fluid or subcrit. fluid and reducing the pressure of the system, wherein (1) the resins are insol. in the supercrit. fluid or the subcrit. fluid and/or (2) the mixing process and the pressure-reducing process are repeated. Thus, 50 parts jet-milled EP 208 (polyester) particles (av. particle size 7.2 μm) was mixed with 4 parts C.I. Solvent Red 109 (oil-sol. dye) and 1% fluoropolymer (dispersion stabilizer), the mixt. was stirred under CO2 at 25 MPa and 80° for 1 h, and the internal pressure of the system was reduced by opening a vacuum valve to give particles showing magenta color. An electrophotog. **toner** contg. the particles gave high-d. images.

ST resin particle oil soluble dye **toner**; electrophotog **toner** dye polyester particle; supercrit fluid mixing dye resin particle

IT **85884-63-5P**, Butyl acrylate-divinylbenzene-methacrylic acid-methyl methacrylate-styrene copolymer
RL: IMF (Industrial manufacture); PEP (Physical, engineering or chemical process); POF (Polymer in formulation); PYP (Physical process); TEM (Technical or engineered material use); PREP (Preparation); PROC (Process); USES (Uses)

(**resin** particles colored by mixing with oil-sol. dyes under supercrit. or subcrit. fluid for electrophotog. toners)

L30 ANSWER 4 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 140:305537 CA
TI Oil based ink composition for ink-jet printer and method for production thereof
IN Horie, Seiji; Sakasai, Yutaka
PA Fuji Photo Film Co., Ltd., Japan
SO U.S. Pat. Appl. Publ., 20 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2004068031	A1	20040408	US 2003-668152	20030924
			JP 2002-282942 A	20020927
JP 2004115706	A2	20040415	JP 2002-282942	20020927

IT 676604-19-6P 676604-20-9P 676604-21-0P **676604-22-1P**
676604-24-3P 676604-26-5P 676604-28-7P 676604-30-1P 676604-31-2P
676604-32-3P
RL: IMF (Industrial manufacture); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**binder**; oil based ink compn. for ink-jet printer and method for prodn. thereof)
IT 980-26-7, **Toner** Magenta E 02 5281-04-9, Lionol Red 6B FG 4213
77804-81-0, **Toner** Yellow HG
RL: TEM (Technical or engineered material use); USES (Uses)
(pigment; oil based ink compn. for ink-jet printer and method for prodn. thereof)

L30 ANSWER 5 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 140:305516 CA
TI Oil-based ink composition for inkjet printer and method of forming image using the same
IN Horie, Seiji; Sakasai, Yutaka
PA Fuji Photo Film Co., Ltd., Japan
SO U.S. Pat. Appl. Publ., 33 pp.
CODEN: USXXCO
DT Patent
LA English
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI US 2004063811	A1	20040401	US 2003-668158	20030924
			JP 2002-283416 A	20020927
			JP 2002-286110 A	20020930
JP 2004143440	A2	20040520	JP 2003-333518	20030925
			JP 2002-283416 A	20020927
			JP 2002-286110 A	20020930

IT 676273-96-4 676273-97-5 676273-98-6 676273-99-7 676274-00-3
676274-01-4 676274-02-5 **676274-03-6 676274-04-7**
676274-05-8 676274-06-9 676274-07-0 676274-08-1 676274-09-2
676274-10-5 676274-11-6 676274-12-7
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(**binder**; oil-based ink compn. for inkjet printer and method of forming image using the same)
IT 980-26-7, **Toner** Magenta E02 77804-81-0, **Toner** Yellow

HG
RL: TEM (Technical or engineered material use); USES (Uses)
(oil-based ink compn. for inkjet printer and method of forming image using the same)

L30 ANSWER 6 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 138:115007 CA
TI Electrophotographic liquid developers for heat roll fixing without requiring lubricant application, and image formation method using them with no hot offset
IN Asami, Takeshi; Tsubushi, Kazuo; Ishikawa, Aiko
PA Ricoh Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2003015367	A2	20030117	JP 2001-203819	20010704
			JP 2001-203819	20010704

ST electrophotog liq developer hot offset prevention; heat roll fixing **toner** flushing humic; acrylic halogen binder silicone liq **toner**
IT **25068-63-7**, Glycidyl methacrylate-lauryl methacrylate-methacrylic acid-methyl methacrylate copolymer **121462-57-5**, Hydroxymethyl methacrylate-methacrylic acid-methyl methacrylate-stearyl methacrylate copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(**binder**; electrophotog. liq. developers for heat roll fixing without requiring lubricant application with no hot offset)

L30 ANSWER 7 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 138:80621 CA
TI Liquid developers for electrostatically charged images, recording materials, and image formation method
IN Tsubushi, Kazuo; Asami, Takeshi; Ishikawa, Aiko
PA Ricoh Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 3

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI JP 2003005456	A2	20030108	JP 2001-187937		20010621
US 2003099894	A1	20030529	US 2002-156827		20020530
US 6692881	B2	20040217			
			JP 2001-163266	A	20010530
			JP 2001-187937	A	20010621
			JP 2001-205347	A	20010705

PATENT FAMILY INFORMATION:
FAN 138:31044

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI JP 2002356635	A2	20021213	JP 2001-163266		20010530
US 2003099894	A1	20030529	US 2002-156827		20020530
US 6692881	B2	20040217			
			JP 2001-163266	A	20010530
			JP 2001-187937	A	20010621
			JP 2001-205347	A	20010705

FAN 138:115016

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2003020423	A2	20030124	JP 2001-205347	20010705
US 2003099894	A1	20030529	US 2002-156827	20020530
US 6692881	B2	20040217		
			JP 2001-163266 A	20010530
			JP 2001-187937 A	20010621
			JP 2001-205347 A	20010705

AB The developers contain toners dispersed in liq. media (e.g., aliph. hydrocarbon, silicone oil, higher fatty acid ester, liq. paraffin, vegetable oil), wherein the toners comprise colorants and resins contg. epoxy-modified resins shown as R1CH2CH(OH)CH2O[C6H4-p-CR22C6H4-p-OCH2CH(OH)CH2]mOC6H4-p-CMe2C6H4-p-OCH2CH(OH)CH2R1 (m = 1-25; R1 = O2CnH2n+1; R2 = CnH2n+1; n = 1-30). The claimed recording materials comprise the above **toner** dispersions and may be used for printing inks, ink-jet printing inks, marker inks, or paints. Images are formed by applying the developers on rollers or belts and bonding the developers on electrostatic latent image supports for development. The developers give high-d. high-resoln. images with good fixability in electrophotog.

ST electrophotog liq **toner** epoxy modified resin; printing ink **toner** dispersion epoxy modified resin; jet printing ink **toner** dispersion; marking ink **toner** dispersion epoxy modified resin; paint **toner** dispersion epoxy modified resin

IT Isoalkanes
RL: TEM (Technical or engineered material use); USES (Uses)
(C9-12, dispersant, Isopar H; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

IT Hydrocarbons, uses
Paraffin oils
Polysiloxanes, uses
Safflower oil
RL: TEM (Technical or engineered material use); USES (Uses)
(dispersant; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

IT Paints
(epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

IT Inks
(jet-printing; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

IT Electrophotographic toners
(liq.; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

IT Fatty acids, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(long-chain, esters, dispersant; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

IT Inks
(marking; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

IT Inks
(printing; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

IT Carbon black, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(**toner** contg.; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images,

inks, and paints)
IT Fats and Glyceridic oils, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(vegetable, dispersant; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)
IT 110-27-0, Isopropyl myristate 42557-10-8, KF 96
RL: TEM (Technical or engineered material use); USES (Uses)
(dispersant; epoxy-modified resin-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)
IT **141699-02-7**, Glycidyl methacrylate-methacrylic acid-methyl methacrylate-stearyl methacrylate copolymer **482288-74-4**
RL: TEM (Technical or engineered material use); USES (Uses)
(**toner** contg.; epoxy-modified **resin**-contg. **toner** dispersions for liq. developers for electrostatically charged images, inks, and paints)

L30 ANSWER 8 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 138:47226 CA
TI Electrophotographic **toner** showing excellent fixability and durability and its manufacture by UV photopolymerization
IN Shibai, Yasuhiro; Ariyoshi, Satoru; Akazawa, Yoshiaki
PA Sharp Corp., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2002365844	A2	20021218	JP 2001-177366	20010612
			JP 2001-177366	20010612

TI Electrophotographic **toner** showing excellent fixability and durability and its manufacture by UV photopolymerization
AB The title electrophotog. **toner** includes a photopolymd. binder resin contg. at least carboxyl and epoxy groups or blocked isocyanate and hydroxy groups. The above binder resin contains ≤20 % of THF-insol. components and the THF-insol. components increase to ≥50 % after heating at 150° for 1 min. The **toner** has a specified particle size distribution and a sphericity of 0.9-1. The small **toner** with a sharp particle size distribution is easily manufd.
ST electrophotog **toner** binder resin UV photopolymn
IT Polyurethanes, preparation
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(block; UV photopolymn. manuf. of electrophotog. **toner** binder resin showing excellent fixability and durability)
IT Electrophotographic toners
(electrophotog. **toner** showing excellent fixability and durability and its manuf. by UV photopolymn.)
IT Polymerization
(photopolymn.; electrophotog. **toner** showing excellent fixability and durability and its manuf. by UV photopolymn.)
IT **478920-70-6P**, Acrylic acid-butyl acrylate-glycidyl methacrylate-isobornyl methacrylate-methyl methacrylate copolymer 478920-71-7P, Acrylic acid-butyl acrylate-ethylene glycol dimethacrylate-glycidyl methacrylate-isobornyl methacrylate copolymer 478920-72-8P, Methyl methacrylate-styrene-isobornyl acrylate-butyl acrylate-4-hydroxybutyl acrylate-methylethylketoxime-modified 2-methacryloyloxyethyl isocyanate copolymer

RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(UV photopolymn. manuf. of electrophotog. **toner** **binder resin** showing excellent fixability and durability)

L30 ANSWER 9 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 137:302113 CA
TI Method and apparatus for forming image using organic photoreceptor having resin surface layer and contact-type **toner**-cleaning blade
IN Sato, Kazuhiko; Uchino, Tetsu
PA Konica Co., Japan
SO Jpn. Kokai Tokkyo Koho, 41 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2002287591	A2	20021003	JP 2001-85040	20010323
			JP 2001-85040	20010323

TI Method and apparatus for forming image using organic photoreceptor having resin surface layer and contact-type **toner**-cleaning blade
AB The process uses an org. photoreceptor having a resin surface layer thereon and a contact-type **toner**-cleaning blade. The resin surface layer is made up of an org. polymer component, a siloxane condensation product component, and a charge-transporting structure component. The contact-type **toner**-cleaning blade is made up of an elastic blade in contact with the photoreceptor surface and an elastic or plastic material support which supports the blade at one end opposite to the blade tip and at the surface farther away from the photoreceptor so as to satisfy the following relation: $0.1<b/a\leq 0.9$ (a = free length of cleaning blade; and b = free length of elastic material support). The elastic or plastic material support is fixed on a metal thin plate. The process and the app. employ a **toner**, ≥50 no.% of which has rounded corners, and ≥65 no.% of which has a shape coeff. 1.2-1.6. The uses of above **toner**-cleaning blade and above **toner** provided excellent **toner** cleaning performances even when an org. photoreceptor is used.
ST **toner** cleaning blade electrophotog photoreceptor resin surface layer; siloxane polymer charge transporting structure resin surface layer
IT Electrophotographic apparatus
(**toner** cleaning blade of)
IT Elastic materials
Electrophotographic toners
(**toner** cleaning blade of electrophotog. app.)
IT Plastics, uses
Polyesters, uses
Polyimides, uses
Silicone rubber, uses
Urethane rubber, uses
RL: DEV (Device component use); USES (Uses)
(**toner** cleaning blade of electrophotog. app.)
IT Electrophotographic development
(**toner** having rounded corners and **toner** cleaning blade of electrophotog. app.)
IT 84826-27-7P, Butyl acrylate-2-hydroxyethyl methacrylate-KBM 503-Methyl methacrylate copolymer **312908-01-3P**, Acrylic acid-butyl acrylate-KBM 503-methyl methacrylate-N-methylolacrylamide-copolymer
RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)
(prepn. of vinyl polymer for **resin** surface layer formed on

org. electrophotog. photoreceptor)
IT 25038-59-9, PET, uses
RL: DEV (Device component use); USES (Uses)
(**toner** cleaning blade of electrophotog. app.)

L30 ANSWER 10 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 137:270404 CA
TI **Toner** made from **toner** mother particle and external additive having controlled diameters, two-component developer, method of forming image using the same
IN Asahina, Yasuo; Mochizuki, Masaru; Masuda, Minoru; Suzuki, Tomoyoshi; Suzuki, Kosuke; Kajiwara, Tamotsu
PA Ricoh Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2002278124	A2	20020927	JP 2001-73078	20010314
			JP 2001-73078	20010314

TI **Toner** made from **toner** mother particle and external additive having controlled diameters, two-component developer, method of forming image using the same
AB The **toner** comprises a **toner** mother particle made up of a colorant, a binder resin, and a charge-controller and an external additive, wherein (i) the binder resin is polyester and (ii) a charge (A) of the **toner** mother particle, a charge (B) of the **toner** mother particle having the external additive thereon, an av. grain diam. (C) of the external additive, and an av. grain diam. (D) of the **toner** mother particle have the following relations: $-2.3 \leq X \leq 2.3$ and $X = (B/A) \times (\sum C/D)$. The charge controller is a salicylic acid metal salt and a salicylic acid deriv. metal salt. A carrier grain used in the 2-component developer is coated by a silicone resin, a fluororesin, a fluororesin/styrene acrylic resin, an amino resin, and/or an amino resin/styrene acrylic resin. The carrier core is coated with the resin in such a manner that the uneven surface on the carrier core is recognizable. The 2-component developer and the method of forming an image using above **toner** are also claimed. The **toner** satisfying above relations provided excellent images even when the **toner** was recycled.
ST electrophotog two component developer development **toner** carrier; polyester binder resin **toner**
IT Polyesters, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(binder resin in electrophotog. **toner**)
IT Electrophotographic development
(image formation using **toner** made from **toner** mother particle and external additive having controlled diams.)
IT Electrophotographic toners
(**toner** made from **toner** mother particle and external additive having controlled diams.)
IT Electrophotographic developers
(two-component developer; **toner** made from **toner** mother particle and external additive having controlled diams.)
IT 82213-09-0P, Propoxylated bisphenol a-terephthalic acid-trimellitic acid copolymer 89993-86-2P, Propoxylated bisphenol a-terephthalic acid copolymer 90837-29-9P, 1,2,4-Benzenetricarboxylic acid-ethoxylated bisphenol a-propoxylated bisphenol a-terephthalic acid copolymer 130030-40-9P, Propoxylated bisphenol a-succinic acid-terephthalic acid-trimellitic acid copolymer

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(binder resin in electrophotog. **toner**)
IT 42405-40-3, Bontron E84
RL: TEM (Technical or engineered material use); USES (Uses)
(charge controller in electrophotog. **toner**)
IT **65588-72-9P**, Butyl methacrylate-2-hydroxyethyl acrylate-methacrylic acidmethyl methacrylate-styrene copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrophotog. carrier ferrite core coated with **resin**)

=> d fbib kwic 11-30; fil stnguide

L30 ANSWER 11 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 136:377455 CA
TI Binder for electrophotographic **toner**
IN Hayakawa, Naoki
PA Sanyo Chemical Industries Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2002148856	A2	20020522	JP 2001-265087	20010831
			JP 2000-262588 A	20000831

TI Binder for electrophotographic **toner**
AB The invention relates to a binder for an electrophotog. **toner** having a lower limit for the fixing temp. The binder comprises styrene copolymers (A and B) having different SP values, wherein the styrene copolymer (A) has peaks in 3,000-30,000 and 100,000-1,000,000, resp., in the GPC mol. wt. distribution and the SP values of (A) and (B) and Tg (glass transition temp.) have the following relation $0.18 \leq |SPa-SPb| \leq 1.00$ and $+5 \leq |Tga-Tgb| \leq +25°$.
ST styrene copolymer binder electrophotog **toner**
IT Electrophotographic toners
(styrene copolymer binder for electrophotog. **toner**)
IT 9003-53-6P, Polystyrene 25085-34-1P, Acrylic acid-styrene copolymer 25586-20-3P, Acrylic acidbutyl acrylate-styrene copolymer **25586-25-8P**, Acrylic acid-acrylonitrile-butyl acrylate-styrene copolymer 25767-47-9P, Butyl acrylate-styrene copolymer 25852-38-4P, Acrylonitrilebutyl acrylatemethyl methacrylate-styrene copolymer 27136-15-8P, Butyl acrylatemethyl methacrylate-styrene copolymer 30814-80-3P, Methyl methacrylate-stearyl methacrylate-styrene copolymer 60806-47-5P, Butyl acrylate-divinylbenzene-styrene copolymer
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(styrene copolymer **binder** for electrophotog. **toner**)

L30 ANSWER 12 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 136:356430 CA
TI Erasable pigment with good color stability
IN Tanaka, Norio; Sugito, Yoshifumi; Noda, Mitsuo
PA Dainichiseika Color and Chemical Mfg. Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 17 pp.
CODEN: JKXXAF
DT Patent

LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2002129071	A2	20020509	JP 2000-324345	20001024
			JP 2000-324345	20001024

ST leuco dye erasable pigment electrophotog **toner** color stability; leuco dye erasable pigment water thinned ink color stability
IT **362587-75-5**, Ammonium acrylate-butyl acrylate-methyl methacrylate copolymer
RL: MOA (Modifier or additive use); USES (Uses)
(as **binder** for erasable ink with good color stability)

L30 ANSWER 13 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 136:332749 CA
TI Electrostatographic liquid developer and method for image development using same
IN Asami, Takeshi; Tsubushi, Kazuo; Ishikawa, Aiko
PA Ricoh Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2002116583	A2	20020419	JP 2000-308997	20001010
			JP 2000-308997	20001010

AB The title developer contains dispersed **toner** particles made of a colorant and a binder resin in silicone oil of high resistance and low dielec. const., wherein the binder resin is made of: a mixt. of a resin having methylol group and a resin having a functional group reacting with the methylol group; or a resin modified by reacting a methylol group. The developer provides the high image d. and the high resoln. images.
IT **25068-63-7P**, Lauryl methacrylate-methyl methacrylate-methacrylic acid-glycidyl methacrylate copolymer 26337-56-4P, Styrene-2-ethylhexyl methacrylate-2-hydroxyethyl methacrylate copolymer 31423-16-2P, Styrene-butyl methacrylate-hydroxyethyl methacrylate copolymer **121462-57-5P**, Stearyl methacrylate-methyl methacrylate-methacrylic acid-hydroxymethyl methacrylate copolymer
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**binder resin** electrostatog. toners)

L30 ANSWER 14 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 136:332744 CA
TI Resin composition containing vinyl polyester prepared in amorphous polyester for toners and toners containing same
IN Imamura, Masayuki; Shiozaki, Masaya; Takehara, Hiroaki
PA Sekisui Chemical Co. Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2002116578	A2	20020419	JP 2000-310898	20001011
			JP 2000-310898	20001011

AB The title resin compn. contains a vinyl copolymer made of styrene,

(meth)acrylic acid, and (meth)acrylate copolymer by radical polymn. in an amorphous polyester polymer, wherein the amorphous polyester is 3-24 % grafted with the vinyl polymer. The compn. shows the high transparency and provides toners of the good low fixing characteristics, bending-resistance, offset-resistance, and the storageability. 9/087 . . Binders for **toner** particles [5].

ST resin compn grafted polyester **toner**

IT 25586-20-3DP, Styrene/butyl acrylate/acrylic acid copolymer, graft polymer with polyester 25586-20-3P, Styrene/butyl acrylate/acrylic acid copolymer **25987-66-0DP**, Styrene-butyl acrylate-methyl methacrylate-methacrylic acid copolymer, graft polymer with polyester **25987-66-0P**, Styrene-butyl acrylate-methyl methacrylate-methacrylic acid copolymer **27306-39-4DP**, Styrene/butyl acrylate/methyl methacrylate/acrylic acid copolymer, graft polymer with polyester **27306-39-4P**, Styrene/butyl acrylate/methyl methacrylate/acrylic acid copolymer
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**resin** compn. contg. grafted polyester **resin** for **toners**)

L30 ANSWER 15 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 135:233857 CA
TI Resin composition of electrophotographic **toner** and dry **toner** comprising it
IN Ono, Takashi; Ueno, Masaki
PA Sanyo Chemical Industries Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 13 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 2001249492	A2	20010914	JP 2000-61131	20000306
				JP 2000-61131	20000306

TI Resin composition of electrophotographic **toner** and dry **toner** comprising it
AB The resin compn. comprises two kinds of polyesters and a graft polymer of a polyolefin resin having 80-170° softening point with a vinyl resin having 10.6-12.6 SP value. The resin compn. is also claimed, comprising the obtained resin compn., and the vinyl resin with 10.6-12.6 SP value and/or a wax with 50-170° softening point. The dry **toner** comprises the obtained resin compn., a colorant, and the above wax. The **toner** prevented white spots and image d. decrease by broadened fixing temp. range and improved fluidization. The **toner** shows good low temp. fixation, antioffset property, and flowability, and images without white dot are obtained.

ST electrophotog dry **toner** polyester; polyolefin vinyl graft copolymer **toner** resin; wax electrophotog dry **toner** compn

IT Paraffin waxes, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(Sazol wax; electrophotog. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)

IT Electrophotographic toners
(electrophotog. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)

IT Carnauba wax

IT Polyesters, uses
RL: TEM (Technical or engineered material use); USES (Uses)
(electrophotog. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)

IT Phenolic resins, preparation

RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(novolak, ethylene oxide adduct, polyesters; electrophotog. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)

IT 110-17-8DP, Fumaric acid, polyesters 552-30-7DP, Trimellitic anhydride, polyesters 32492-61-8DP, polyesters 37353-75-6DP, Bisphenol A-propylene oxide adduct (1:2), polyesters 79293-17-7P 96360-62-2P 99546-37-9P 168638-93-5P **260786-90-1P** 359011-20-4P
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrophotog. dry **toner resin** compn. contg. polyesters, graft copolymer of polyolefin and vinyl **resin**, and wax)

IT 9010-79-1, Viscol 550P
RL: TEM (Technical or engineered material use); USES (Uses)
(electrophotog. dry **toner** resin compn. contg. polyesters, graft copolymer of polyolefin and vinyl resin, and wax)

L30 ANSWER 16 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 134:346443 CA
TI Resin composition for electrophotographic **toner** with improved fixability, offset-resistance, storage stability, and image quality
IN Araki, Takashi
PA Sekisui Chemical Co. Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2001125312	A2	20010511	JP 1999-305876	19991027
			JP 1999-305876	19991027

TI Resin composition for electrophotographic **toner** with improved fixability, offset-resistance, storage stability, and image quality
ST electrophotog **toner** resin compn vinyl copolymer amorphous satd polyester
IT Polyesters, properties
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(acrylic, graft; resin compn. for electrophotog. **toner** with improved fixability, offset-resistance, storage stability, and image quality)
IT Electrophotographic toners
(resin compn. for electrophotog. **toner** with improved fixability, offset-resistance, storage stability, and image quality)
IT 25767-47-9P, n-Butyl acrylate-styrene copolymer 109216-33-3P, Butyl acrylate-methyl methacrylate-styrene graft copolymer **167467-18-7P**, Acrylic acid-butyl acrylate-methyl methacrylate-styrene graft copolymer 213553-61-8P, Butyl acrylate-2-hydroxyethyl acrylate-methyl methacrylate-styrene graft copolymer
RL: PRP (Properties); SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**resin** compn. for electrophotog. **toner** with improved fixability, offset-resistance, storage stability, and image quality)

L30 ANSWER 17 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 134:287819 CA
TI Binder composition containing binder resin of specific molecular weight

distribution and specific melt viscosity for electrophotographic **toner**
IN Suzuki, Toshiaki; Mizumori, Masahide; Fujibayashi, Shinya
PA Sanyo Chemical Industries Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 15 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 2001092182	A2	20010406	JP 1999-207176		19990722
				JP 1998-223578	A	19980722
				JP 1999-46927	A	19990224
				JP 1999-49521	A	19990226
				JP 1999-50808	A	19990226
				JP 1999-205580	A	19990721

PATENT FAMILY INFORMATION:
FAN 132:129999

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	WO 2000005626	A1	20000203	WO 1999-JP3917		19990722
	W: CN, US					
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE					
				JP 1998-223578	A	19980722
				JP 1999-46927	A	19990224
				JP 1999-49521	A	19990226
				JP 1999-50808	A	19990226
				JP 1999-53329	A	19990301
	JP 2000314989	A2	20001114	JP 1999-205067		19990719
				JP 1998-223578	A	19980722
				JP 1999-53329	A	19990301

TI Binder composition containing binder resin of specific molecular weight distribution and specific melt viscosity for electrophotographic **toner**
ST binder compn resin mol wt melt viscosity electrophotog **toner**
IT Electrophotographic toners
Melt viscosity
Molecular weight distribution
(binder compn. contg. binder resin of specific mol. wt. distribution and specific melt viscosity for electrophotog. **toner**)
IT Polyesters, preparation
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(binder compn. contg. binder resin of specific mol. wt. distribution and specific melt viscosity for electrophotog. **toner**)
IT 9002-88-4P 9003-54-7P, Styrene-acrylonitrile copolymer 25586-20-3P, Styrene-butyl acrylate-acrylic acid copolymer 26299-47-8P, Styrene-acrylonitrile-butyl acrylate copolymer 26568-80-9P, Styrene-butadiene-acrylonitrile-acrylic acid copolymer 26660-38-8P, Acrylonitrile-glycidyl methacrylate copolymer 28806-55-5P, Styrene-acrylonitrile-glycidyl methacrylate-butadiene copolymer 52907-82-1DP, Epikote 1002, ester with benzoic acid, reaction 100829-08-1P, Styrene-Butadiene-Acrylonitrile-2-Hydroxyethyl methacrylate copolymer 100920-92-1P, Styrene-acrylonitrile-2-isopropenyl-2-oxazoline copolymer 178366-14-8P, Styrene-acrylonitrile-m-Isopropenyl-α,α-dimethylbenzyl isocyanate copolymer **256442-08-7P**
, Styrene-Stearyl methacrylate-Acrylonitrile-acrylic acid copolymer 332347-99-6P 333391-04-1P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**binder** compn. contg. **binder resin** of specific mol. wt. distribution and specific melt viscosity for

electrophotog. **toner**)

IT 1675-54-3
RL: TEM (Technical or engineered material use); USES (Uses)
(binder compn. contg. binder resin of specific mol. wt. distribution and specific melt viscosity for electrophotog. **toner**)

L30 ANSWER 18 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 134:229690 CA
TI Method for image formation using liquid developer according to electrostatographic process
IN Asami, Takeshi; Tsubushi, Kazuo; Ishikawa, Aiko; Kozeki, Akihiro; Kudo, Takeo
PA Ricoh Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 20 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 4

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 2001066899	A2	20010316	JP 1999-236941		19990824
	US 6447973	B1	20020910	US 2000-644266		20000823
				JP 1999-236941	A	19990824
				JP 1999-283475	A	19991004
				JP 1999-324164	A	19991115
				JP 1999-331437	A	19991122

PATENT FAMILY INFORMATION:
FAN 134:318613

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 2001109187	A2	20010420	JP 1999-283475		19991004
	US 6447973	B1	20020910	US 2000-644266		20000823
				JP 1999-236941	A	19990824
				JP 1999-283475	A	19991004
				JP 1999-324164	A	19991115
				JP 1999-331437	A	19991122

FAN 134:374024

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 2001142260	A2	20010525	JP 1999-324164		19991115
	US 6447973	B1	20020910	US 2000-644266		20000823
				JP 1999-236941	A	19990824
				JP 1999-283475	A	19991004
				JP 1999-324164	A	19991115
				JP 1999-331437	A	19991122

FAN 135:12070

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 2001147548	A2	20010529	JP 1999-331437		19991122
	US 6447973	B1	20020910	US 2000-644266		20000823
				JP 1999-236941	A	19990824
				JP 1999-283475	A	19991004
				JP 1999-324164	A	19991115
				JP 1999-331437	A	19991122

AB The title method uses a liq. developer contg. **toner** particles mainly made of a colorant and a vinyl resin in a carrier soln. of the high elec. resistance, wherein wt. av. mol. wt. and the no. av. mol. wt. of the vinyl resin is ≥4. The melt index, the acid value, the viscosity, and the crosslinking degree of the resin are also controlled. The method using the above vinyl resin provides the improve offset resistance while maintaining the low fixing temp.

IT 85884-61-3P, Styrene-butyl acrylate-maleic acid-divinylbenzene copolymer
85884-62-4P, Styrene-butyl acrylate-acrylic acid-divinylbenzene copolymer
85884-63-5P, Styrene-methyl methacrylate-butyl
acrylate-methacrylic acid-divinylbenzene copolymer
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**resin** in **toner** particles)

L30 ANSWER 19 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 134:49156 CA
TI Electrophotographic **toner** resin composition used for reversal development and **toner** produced therefrom
IN Shinjo, Takashi; Shiosaki, Masaya; Okudo, Masazumi
PA Sekisui Chemical Co. Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 11 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000338715	A2	20001208	JP 1999-125951	19990506
			JP 1999-75999 A	19990319

TI Electrophotographic **toner** resin composition used for reversal development and **toner** produced therefrom
AB The title compn. contains a copolymer of styrenic, (meth)acrylate, carboxylic monomers, wherein the copolymer has 20-60 mg·KOH/g acid value, ≤-20 μC charge capacity, and ≥1X1010 Ω·cm vol. resistance. The compn. provides the **toner** of the excellent balance between fixing performances and developing performances.
ST electrophotog **toner** resin compn
IT Electrophotographic toners
(electrophotog. **toner** resin compn. used for reversal development and **toner** produced therefrom)
IT **27306-39-4P**, Styrene-butyl acrylate-methyl methacrylate-acrylic acid copolymer
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**resin** in electrophotog. **toner resin** compn.)

L30 ANSWER 20 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 133:297653 CA
TI Phthalocyanines as dispersing agents for gaining the original clear color of phthalocyanine pigments useful in color filter, ink and color **toner**
IN Aoki, Minoru; Masuda, Kiyoshi; Asako, Yoshinobu; Ikeda, Isao; Urashima, Nobuaki
PA Nippon Shokubai Kagaku Kogyo Co., Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 16 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000281927	A2	20001010	JP 1999-93860	19990331
			JP 1999-93860	19990331

OS MARPAT 133:297653
TI Phthalocyanines as dispersing agents for gaining the original clear color of phthalocyanine pigments useful in color filter, ink and color **toner**

ST phthalocyanine dispersing agent color pigment clearness; ink color filter **toner** phthalocyanine dispersing agent; turbidity redn phthalocyanine dispersing agent color filter; transparency dispersing agent phthalocyanine color filter

IT Metallophthalocyanines
RL: MOA (Modifier or additive use); USES (Uses)
(dispersing agents; phthalocyanines as dispersing agents for gaining original clear color of phthalocyanine pigments useful in color filter, ink and color **toner**)

IT Coating materials
(dispersion; phthalocyanines as dispersing agents for gaining original clear color of phthalocyanine pigments useful in color filter, ink and color **toner**)

IT Inks
(jet-printing; phthalocyanines as dispersing agents for gaining original clear color of phthalocyanine pigments useful in color filter, ink and color **toner**)

IT Dispersing agents
Electrophotographic toners
Optical filters
(phthalocyanines as dispersing agents for gaining original clear color of phthalocyanine pigments useful in color filter, ink and color **toner**)

IT **28262-63-7**, Butyl methacrylate-methacrylic acid-methyl methacrylate copolymer
RL: POF (Polymer in formulation); PRP (Properties); TEM (Technical or engineered material use); USES (Uses)
(**binder**; phthalocyanines as dispersing agents for gaining original clear color of phthalocyanine pigments useful in color filter, ink and color **toner**)

IT 39001-65-5 152197-58-5 217483-17-5 238074-20-9 238074-22-1 238098-00-5 238098-10-7 301540-20-5 301540-21-6 301546-98-5
RL: MOA (Modifier or additive use); USES (Uses)
(dispersing agents; phthalocyanines as dispersing agents for gaining original clear color of phthalocyanine pigments useful in color filter, ink and color **toner**)

IT 147-14-8, C.I.Pigment blue 15:6
RL: TEM (Technical or engineered material use); USES (Uses)
(pigment; phthalocyanines as dispersing agents for gaining original clear color of phthalocyanine pigments useful in color filter, ink and color **toner**)

L30 ANSWER 21 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 132:214749 CA
TI Electrophotographic **toner** composition and resin composition for it
IN Kato, Norikazu; Ono, Takashi; Ueno, Masaki
PA Sanyo Chemical Industries Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 12 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 2000075549	A2	20000314	JP 1998-259280	19980827
			JP 1998-259280	19980827

TI Electrophotographic **toner** composition and resin composition for it
AB The resin compn. comprises (A) a polyolefin having softening temp. 80-170°, (B) a vinyl polymer having soly. parameter 10.6-12.6, and (C) a graft copolymer formed by graft polymg. B with A. The **toner** binder compn. comprises a polyester binder and the above-described resin

compn. The **toner** compn. comprises the resin compn., a polyester binder, and a colorant. The **toner** shows good antioffset property, stable flowability, and gives high d. images without white defect.

ST electrophotog **toner** resin polyolefin; olefin vinyl graft polymer electrophotog **toner**; polyester binder electrophotog **toner**

IT Electrophotographic toners
(electrophotog. **toner** contg. polyester binder and polyolefin and vinyl polymer)

IT Polyesters, preparation
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrophotog. **toner** contg. polyester binder and polyolefin and vinyl polymer)

IT Phenolic resins, preparation
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(novolak, ethoxylated, polyesters; electrophotog. **toner** contg. polyester binder and polyolefin and vinyl polymer)

IT 9002-88-4, Polyethylene
RL: TEM (Technical or engineered material use); USES (Uses)
(Sanwax LEL 400, Sanwax 171P; electrophotog. **toner** contg. polyester binder and polyolefin and vinyl polymer)

IT 9003-07-0, Polypropylene
RL: TEM (Technical or engineered material use); USES (Uses)
(Viscol 440P; electrophotog. **toner** contg. polyester binder and polyolefin and vinyl polymer)

IT 75-21-8DP, Ethylene oxide, reaction products with phenolic resins, polyesters 100-21-0DP, Terephthalic acid, polyesters 110-16-7DP, 2-Butenedioic acid (2Z)-, polyesters, preparation 120-61-6DP, Dimethyl terephthalate, polyesters 552-30-7DP, Trimellitic anhydride, polyesters 32492-61-8DP, Bisphenol A ethylene oxide adduct, polyesters 37353-75-6DP, Bisphenol A propylene oxide adduct, polyesters 126034-89-7P, Bisphenol A ethylene oxide adduct-bisphenol A propylene oxide adduct-terephthalic acid copolymer **260559-28-2P**, Acrylic acid-acrylonitrile-butyl acrylate-ethylene-propylene-styrene graft copolymer **260786-90-1P**
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrophotog. **toner** contg. polyester **binder** and polyolefin and vinyl polymer)

IT 9010-79-1, Viscol 550P 143929-12-8, Viscol 660P 260786-55-8, Acrylonitrile-ethylene-monobutyl maleate-propylene-styrene graft copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(electrophotog. **toner** contg. polyester binder and polyolefin and vinyl polymer)

L30 ANSWER 22 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 132:129999 CA
TI **Toner** binder composition and **toner** composition for electrophotography
IN Suzuki, Toshiro; Mizumori, Masahide; Fujibayashi, Shinya
PA Sanyo Chemical Industries Ltd., Japan
SO PCT Int. Appl., 40 pp.
CODEN: PIXXD2
DT Patent
LA Japanese
FAN.CNT 2

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 2000005626	A1	20000203	WO 1999-JP3917	19990722
	W: CN, US				
	RW: AT, BE, CH, CY, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL,				

PT, SE

			JP 1998-223578	A	19980722
			JP 1999-46927	A	19990224
			JP 1999-49521	A	19990226
			JP 1999-50808	A	19990226
			JP 1999-53329	A	19990301
JP 2000314989	A2	20001114	JP 1999-205067		19990719
			JP 1998-223578	A	19980722
			JP 1999-53329	A	19990301

PATENT FAMILY INFORMATION:

FAN 134:287819

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	JP 2001092182	A2	20010406	JP 1999-207176		19990722
				JP 1998-223578	A	19980722
				JP 1999-46927	A	19990224
				JP 1999-49521	A	19990226
				JP 1999-50808	A	19990226
				JP 1999-205580	A	19990721

RE.CNT 7 THERE ARE 7 CITED REFERENCES AVAILABLE FOR THIS RECORD
ALL CITATIONS AVAILABLE IN THE RE FORMAT

TI **Toner** binder composition and **toner** composition for electrophotography

AB A **toner** binder compn. which comprises 5 to 50 % of a styrenic resin (A) having a wt. av. mol. wt. of 50,000 to 2,000,000 and 50 to 95 % of a styrenic resin (B) having a wt. av. mol. wt. of 1,000 to 30,000, and a melt viscosity at 110° (V1) of 100 to 25,000 Pa.s and a melt viscosity at 170° (V2) of 10 to 3,000 Pa.s, and satisfies the formula $1.0 < \log(V1)/\log(V2) \leq 3.0$. The **toner** of the present invention exhibits an excellent balance among fixing properties at a low temp., resistance to hot offset printing and pulverizability, without detriment to resistance to hot storage and image quality.

ST electrophotog **toner** binder compn polystyrene mol wt melt viscosity

IT Epoxy resins, preparation
Polyesters, preparation
RL: PNU (Preparation, unclassified); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(in **toner** binder compn. and **toner** compn. for electrophotog.)

IT Melt viscosity
Molecular weight distribution
(of electrophotog. **toner** binder compn. to obtain excellent fixing properties)

IT Electrophotographic toners
(**toner** binder compn. and **toner** compn. for electrophotog.)

IT 9003-54-7P 25586-20-3P 26299-47-8P 26568-80-9P 28806-55-5P 29762-66-1P 52907-82-1P 87667-91-2P 100920-92-1P 178366-14-8P **256442-08-7P**
RL: PNU (Preparation, unclassified); POF (Polymer in formulation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(in **toner binder** compn. and **toner** compn. for electrophotog.)

IT 9002-88-4
RL: POF (Polymer in formulation); TEM (Technical or engineered material use); USES (Uses)
(in **toner** binder compn. and **toner** compn. for electrophotog.)

L30 ANSWER 23 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text

AN 132:57078 CA

TI Electrophotographic color **toner**, developer and imaging method for OHP

(overhead projection) sheet
IN Isobe, Kazuya; Soeda, Kaori; Shirase, Akizo
PA Konica Co., Japan
SO Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 11344836	A2	19991214	JP 1998-151303	19980601
			JP 1998-151303	19980601

TI Electrophotographic color **toner**, developer and imaging method for OHP (overhead projection) sheet
AB In the title electrophotog. color **toner** comprising a vinyl binder resin prepd. from I (R1-8 = H, halo, C1-10-alkyl, cycloalkyl, aryl; R9, R10 = H, C1-6-alkyl; X = C1-6-alkylene, polymethylene, C2-6-alkylidene, single bond; Y = C1-6-alkylene, polymethylene, C2-10-alkylidene, sulfonyl, sulfide, -O-, single bond; n = 1-5) or II (R11, R12 = H, C1-6-alkyl; R13, R14 = H, C1-10-alkyl, cycloalkyl, aryl; m = 3-20), the **toner** contains a colorant represented by a general formula III.
ST electrophotog color **toner** developer development OHP colorant vinyl binder
IT Electrophotographic developers
Electrophotographic development
Electrophotographic toners
Overhead projection slides
(electrophotog. color **toner**, developer and imaging method for OHP (overhead projection) sheet)
IT 252763-90-9
RL: TEM (Technical or engineered material use); USES (Uses)
(colorant in electrophotog. color **toner** for OHP sheet)
IT 208179-78-6 **252211-98-6** 252735-61-8 **252735-62-9**
RL: TEM (Technical or engineered material use); USES (Uses)
(vinyl **binder resin** of electrophotog. color **toner** for OHP sheet)

L30 ANSWER 24 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 132:28652 CA
TI Color **toner** for electrostatic image development, developer, and image formation method
IN Isobe, Kazuya; Soeda, Kaori; Shirase, Akizou
PA Konica Co., Japan
SO Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 11344835	A2	19991214	JP 1998-151302	19980601
			JP 1998-151302	19980601

TI Color **toner** for electrostatic image development, developer, and image formation method
AB The **toner** contains a binder resin prepd. from CH2:CR9CO(OXO-p-C6H4Y-p-C6H4OX)nO2CCR10:CH2 [R9, R10 = H, C1-6 (cyclo)alkyl; C6H4 may have substituent; X = C1-6 alkylene, polymethylene, C2-6 alkylidene, bond; Y = C1-6 alkylene, polymethylene, C2-10 alkylidene, aralkylidene, SO2, S, O, bond; n = 1-5] and/or CH2:CR11CO2(CR13R14)mO2CCR12:CH2 [R11, R12 = H, C1-6 (cyclo)alkyl; R13, R14 = H, C1-10 (cyclo)alkyl, aryl; m = 3-20] and C.I. Solvent Yellow 93 as a colorant. The **toner** has good light resistance and is applicable to oilless fixing to provide OHP image with good

transparency and hue stability.
ST color **toner** yellow electrostatic image development; vinyl polymer binder yellow colorant **toner**
IT Color electrophotographic toners
(color **toner** contg. C.I. Solvent Yellow 93 for electrostatic image development)
IT **252211-98-6P**, Bisphenol A bis(2-acryloyloxyethyl) ether-butyl acrylate-methacrylic acid-methyl methacrylate-styrene copolymer **252211-99-7P**, Butyl acrylate-1,6-hexanediol diacrylate-methacrylic acid-methyl methacrylate-styrene copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**binder**; color **toner** contg. C.I. Solvent Yellow 93 for electrostatic image development)
IT 4702-90-3, C.I. Solvent Yellow 93
RL: TEM (Technical or engineered material use); USES (Uses)
(color **toner** contg. C.I. Solvent Yellow 93 for electrostatic image development)

L30 ANSWER 25 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 131:122924 CA
TI Electrophotographic **toner** for color image development
IN Isobe, Kazuya; Shirase, Akizo
PA Konica Co., Japan
SO Jpn. Kokai Tokkyo Koho, 6 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 11184148	A2	19990709	JP 1997-354559	19971224
			JP 1997-354559	19971224

TI Electrophotographic **toner** for color image development
AB The electrophotog. **toner** for color image development has a vinyl resin binder contg. acrylic acid or methacrylic acid and a multi-valent metal compd., wherein the vinyl resin has crosslinking structure formed by a carboxylic group of acrylic or methacrylic acid and the metal ion. The **toner** shows charging stability over time and the excellent durability.
ST electrophotog **toner** color image development vinyl resin
IT Electrophotographic toners
(electrophotog. **toner** for color image development)
IT 25120-19-8DP, Butyl acrylate-styrene-methacrylic acid-acrylic acid copolymer, reaction product with zinc oxide **25987-66-0P**, Styrene-butyl acrylate-methacrylic acid-methyl methacrylate copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(vinyl **resin** for electrophotog. **toner**)

L30 ANSWER 26 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 131:25728 CA
TI Electrostatographic developer **toner** using polyvalent metal salt polymer binder
IN Shimizu, Seiichi; Furukawara, Toshiro
PA Dainippon Ink and Chemicals, Inc., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11133663	A2	19990521	JP 1997-300298	19971031
				JP 1997-300298	19971031

TI Electrostatographic developer **toner** using polyvalent metal salt polymer binder

AB In the **toner** with content of volatile components (b.p. ≤150°) ≤200 ppm, ≥50 wt.% of a binder polymer is a polyvalent metal salt polymer. The **toner** shows good antioffset property and high printability.

ST electrostatog developer **toner** polymer binder; polyvalent metal salt polymer electrostatog **toner**; acrylic polymer aluminum salt **toner** binder

IT Binders
Electrographic toners
(electrostatog. developer **toner** using polyvalent metal salt polymer binder)

IT Metal alkoxides
RL: RCT (Reactant); RACT (Reactant or reagent)
(electrostatog. developer **toner** using polyvalent metal salt polymer binder)

IT Polymerization
(soln.; electrostatog. developer **toner** using polyvalent metal salt polymer binder)

IT **25987-66-0P**
RL: IMF (Industrial manufacture); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrostatog. developer **toner** using polyvalent metal salt polymer **binder**)

IT 555-31-7, Aluminum isopropoxide
RL: RCT (Reactant); RACT (Reactant or reagent)
(electrostatog. developer **toner** using polyvalent metal salt polymer binder)

L30 ANSWER 27 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text

AN 130:146199 CA

TI Electrophotographic **toner** containing polyethylene wax and styrenic binder resin and showing good filming resistance

IN Demizu, Ichiro; Nishihara, Yoikazu; Mikuriya, Yoshihiro

PA Minolta Camera Co., Ltd., Peop. Rep. China

SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF

DT Patent

LA Japanese

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	JP 11015197	A2	19990122	JP 1997-167024	19970624
				JP 1997-167024	19970624

TI Electrophotographic **toner** containing polyethylene wax and styrenic binder resin and showing good filming resistance

AB The **toner**, showing excellent fluidity and chargeability, contains polypropylene wax, polyethylene wax, a colorant, and a styrenic binder resin including 5-30% (based on total monomer wt.) Me methacrylate and showing Mn 2,000-10,000 and polydispersity 20-90.

ST electrophotog **toner** polyethylene wax styrenic binder; antifilming antioffset **toner** binder styrenic acrylic; styrene methyl methacrylate copolymer **toner** binder

IT Binders
Electrophotographic toners
(electrophotog. **toner** contg. polyethylene wax and styrenic binder resin and showing good filming resistance)

IT 25213-39-2P, Butyl methacrylate-styrene copolymer **56793-67-0P**, Butyl methacrylate-methacrylic acid-methyl methacrylate-styrene copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**binder**; electrophotog. **toner** contg. polyethylene wax and styrenic **binder resin** and showing good filming resistance)

IT 9002-88-4, Hiwax 100P 9002-88-4D, Polyethylene, oxidized 9003-07-0, Viscol 330P 9003-07-0D, Polypropylene, oxidized 97930-08-0, Viscol TS 200 143929-12-8, Viscol 660P 208266-07-3, Hiwax 4051E
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(electrophotog. **toner** contg. polyethylene wax and styrenic binder resin and showing good filming resistance)

L30 ANSWER 28 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 130:131772 CA
TI Resin composition for electrophotographic **toner** and **toner** using it
IN Suzuki, Kiyokazu; Kamiyama, Takashi
PA Sekisui Chemical Co. Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 8 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 11024309	A2	19990129	JP 1997-180988	19970707
			JP 1997-180988	19970707

TI Resin composition for electrophotographic **toner** and **toner** using it
AB The resin compn. is a vinyl copolymer comprising styrene derivs., (meth)acrylic ester derivs., and 0.01-10 wt.% vinyl compds. having polar groups as monomers and has mol. wt. peak at 3 × 103-3 × 104 by gel permeation chromatog. and the component with mol. wt. ≤100,000 occupies ≥70wt.% in the mol. wt. distribution. The **toner** using the resin compn. is also claimed. The **toner** shows good antioffset properties and fixability and gives high resoln. full-color images without **toner** filming phenomena.
ST electrophotog **toner** vinyl copolymer binder; mol wt distribution vinyl copolymer **toner**
IT Electrophotographic toners
(electrophotog. **toner** using vinyl copolymer as binder)
IT 25036-16-2P, Butyl acrylate-methacrylic acid-styrene copolymer 25586-20-3P, Acrylic acid-butyl acrylate-styrene copolymer **25987-66-0P**, Butyl acrylate-methacrylic acid-methyl methacrylate-styrene copolymer **27306-39-4P**, Acrylic acid-butyl acrylate-methyl methacrylate-styrene copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrophotog. **toner** using vinyl copolymer as **binder**
)

L30 ANSWER 29 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 129:209302 CA
TI Acrylate-styrene-based polymer composition and electrophotographic **toner** using it
IN Okudo, Masazumi; Takehara, Hiroaki
PA Sekisui Chemical Co. Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF

DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 10221882	A2	19980821	JP 1997-22540	19970205
			JP 1997-22540	19970205

TI Acrylate-styrene-based polymer composition and electrophotographic **toner** using it

AB The polymer compn. mainly contains a graft copolymer obtained by grafting of a substance (B) having m.p. 50-120° to a vinyl copolymer (A) obtained from styrene deriv., (meth)acrylate, and vinyl compd. with acid group and crosslinked via polyfunctional metal compd. The vinyl copolymer (A) contains a low-mol.-wt. polymer component (a) and a high-mol.-wt. polymer component (b), and the component (a) and (b) have a max. value in mol.-wt. distribution in the range 3 x 103-5 x 104 and in the range 3 x 105-5 x 106, resp. In the graft copolymer, the grafting ratio of the substance (B) to the component (b) is higher than that of (B) to the component (a). Alternatively, the polymer compn. mainly contains the vinyl copolymer (A), where the vinyl monomer is polymd. in block, contg. the component (a) and (b). The acid value of the component (b) is ≥10 KOHmg/g which is higher than that of the component (a). The **toner** obtained by using the polymer compn. is also claimed. The **toner** has high fixability in wide temp. range and good balance between antiblocking and antioffset properties.

ST acrylate styrene polymer binder electrophotog **toner**; metal compd crosslinking binder electrophotog **toner**; fixability electrophotog **toner** acrylate styrene polymer

IT Binders
Crosslinking agents
Electrophotographic toners
(styrene-acrylate-based polymer compn. as binder for electrophotog. **toner** having high fixability)

IT 142-72-3P, Magnesium acetate 1309-48-4P, Magnesium oxide, preparation 1314-13-2P, Zinc oxide, preparation
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(crosslinking agent; styrene-acrylate-based polymer compn. as binder for electrophotog. **toner** having high fixability)

IT **212128-44-4P**, Blemmer CP 30-butyl acrylate-2-ethylhexyl acrylate-methacrylic acid-methyl methacrylate-styrene graft copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(magnesium acetate-crosslinked; styrene-acrylate-based polymer compn. as **binder** for electrophotog. **toner** having high fixability)

IT 212128-45-5P, Butyl acrylate-methacrylic acid-stearyl alcohol-styrene graft copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(magnesium oxide-crosslinked; styrene-acrylate-based polymer compn. as binder for electrophotog. **toner** having high fixability)

IT **27306-39-4P**, Acrylic acid-butyl acrylate-methyl methacrylate-styrene copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(styrene-acrylate-based polymer compn. as **binder** for electrophotog. **toner** having high fixability)

IT **212128-43-3P**, Acrylic acid-behenyl alcohol-butyl acrylate-methyl methacrylate-styrene graft copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)

(zinc oxide-crosslinked; styrene-acrylate-based polymer compn. as **binder** for electrophotog. **toner** having high fixability)

L30 ANSWER 30 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 129:154656 CA
TI Resin composition for electrophotographic toners and its manufacture
IN Okudo, Masasumi; Takehara, Kanmei
PA Sekisui Chemical Co. Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 10 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 10186718	A2	19980714	JP 1996-332161	19961212
			JP 1996-288229 A	19961030

ST resin compn vinyl polymer electrophotog **toner**
IT **27306-39-4P**, Acrylic acidbutyl acrylate-methyl methacrylate-styrene copolymer **88583-01-1P**, Acrylic acidbutyl acrylate-2-ethylhexyl acrylate-glycidyl methacrylate-styrene copolymer **210969-32-7P**, Blemmer CP3-butyl acrylate-methacrylic acid-methyl methacrylate-styrene copolymer
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(**resin** compn. for electrophotog. toners and its manuf.)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	106.13	180.66

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
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LAST RELOADED: Apr 8, 2005 (20050408/UP).

=> d his

(FILE 'HOME' ENTERED AT 10:30:44 ON 12 APR 2005)

FILE 'REGISTRY' ENTERED AT 10:31:06 ON 12 APR 2005
E ISOPROPYL METHACRYLATE/CN
L1 1 S E3
E METHYLCHLOROACRYLIC ACID/CN
E CHLOROMETHYLACRYLIC ACID/CN
E VINYLFORMAL/CN
E DODECYL METHACRYLATE/CN
L2 1 S E3
E OCTADECYL METHACRYLATE/CN
L3 1 S E3
E OCTYL METHACRYLATE/CN

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L4            1 S E3
                E PENTYL METHACRYLATE/CN
L5            1 S E3
                E PROPYL METHACRYLATE/CN
L6            1 S E3
                E TETRADECYL METHACRYLATE/CN
L7            1 S E3
                E VINYLMETHYLETHER/CN
                E VINYL METHYL ETHER/CN
L8            1 S E3
                E VINYL ETHYL ETHER/CN
L9            1 S E3
                E VINYL BUTYL ETHER/CN
L10           1 S E3

     FILE 'REGISTRY' ENTERED AT 10:36:35 ON 12 APR 2005

     FILE 'CA' ENTERED AT 10:37:19 ON 12 APR 2005

     FILE 'REGISTRY' ENTERED AT 10:37:37 ON 12 APR 2005
                SEL L1
L11         315 S E1-E6/CRN

     FILE 'CA' ENTERED AT 10:38:53 ON 12 APR 2005

     FILE 'REGISTRY' ENTERED AT 10:39:07 ON 12 APR 2005
                SEL L2
L12        6017 S E7-E24/CRN
                SEL L3
L13        4230 S E25-E38/CRN
                SEL L4
L14         519 S E39-E42/CRN
                SEL L5
L15         103 S E43-E48/CRN
                SEL L6
L16         660 S E49-E55/CRN
                SEL L7
L17         474 S E56-E59/CRN
                SEL L8
L18         890 S E60-E65/CRN
                SEL L9
L19        2491 S E66-E76/CRN
                SEL L10
L20         848 S E77-E88/CRN

     FILE 'STNGUIDE' ENTERED AT 10:42:17 ON 12 APR 2005
L21           0 S 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5

     FILE 'REGISTRY' ENTERED AT 10:43:55 ON 12 APR 2005
L22       97008 S 80-62-6/CRN OR 97-63-2/CRN OR L11 OR 88-12-0/CRN OR 1484-13-5

     FILE 'STNGUIDE' ENTERED AT 10:44:17 ON 12 APR 2005

     FILE 'REGISTRY' ENTERED AT 10:45:21 ON 12 APR 2005
L23       92191 S 141-32-2/CRN OR 97-88-1/CRN OR L12 OR 106-91-2/CRN OR L13 OR
L24       94944 S 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR 24615-84-7/CRN

     FILE 'STNGUIDE' ENTERED AT 10:46:15 ON 12 APR 2005

     FILE 'CA' ENTERED AT 10:46:46 ON 12 APR 2005
L25           0 S METHYLCHLOROACRYLIC ACID
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     FILE 'STNGUIDE' ENTERED AT 10:47:07 ON 12 APR 2005

     FILE 'REGISTRY' ENTERED AT 10:47:16 ON 12 APR 2005
L26       17116 S L24 AND L22 AND L23 AND PMS/CI

     FILE 'CA' ENTERED AT 10:48:24 ON 12 APR 2005
L27       14247 S L26
L28         302 S L27 AND TONER
L29         272 S L28 AND ELECTROPHOTOG?

     FILE 'REGISTRY' ENTERED AT 10:49:33 ON 12 APR 2005
               SAVE L22 A658811A/Q
               SAVE L23 A658811B/Q
               SAVE L24 A658811C/Q

     FILE 'CA' ENTERED AT 10:51:17 ON 12 APR 2005
L30          80 S L27 (P) (BINDER OR RESIN) AND TONER

     FILE 'STNGUIDE' ENTERED AT 10:55:46 ON 12 APR 2005

=> save l27 a658811/a
ANSWER SET NOT SAVED.
THE ANSWER SET WAS CREATED IN FILE 'CA'.
USE THE FILE COMMAND TO CHANGE TO THE CORRECT FILE.
Answer sets must be saved in the same file in which they were
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COST IN U.S. DOLLARS                            SINCE FILE      TOTAL
                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 0.30     180.96

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FILE LAST UPDATED: 7 Apr 2005  (20050407/ED)

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ANSWER SET L30 HAS BEEN SAVED AS 'A658811A1/A'

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                   (ROSPATENT) added to list of core patent offices covered
 NEWS  4  FEB 28   PATDPAFULL - New display fields provide for legal status
                   data from INPADOC
 NEWS  5  FEB 28   BABS - Current-awareness alerts (SDIs) available
 NEWS  6  FEB 28   MEDLINE/LMEDLINE reloaded
 NEWS  7  MAR 02   GBFULL: New full-text patent database on STN
 NEWS  8  MAR 03   REGISTRY/ZREGISTRY - Sequence annotations enhanced
 NEWS  9  MAR 03   MEDLINE file segment of TOXCENTER reloaded
 NEWS  10 MAR 22   KOREAPAT now updated monthly; patent information enhanced
 NEWS  11 MAR 22   Original IDE display format returns to REGISTRY/ZREGISTRY
 NEWS  12 MAR 22   PATDPASPC - New patent database available
 NEWS  13 MAR 22   REGISTRY/ZREGISTRY enhanced with experimental property tags
 NEWS  14 APR 04   EPFULL enhanced with additional patent information and new
                   fields
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               MACINTOSH VERSION IS V6.0c(ENG) AND V6.0Jc(JP),
               AND CURRENT DISCOVER FILE IS DATED 10 JANUARY 2005

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FILE 'HOME' ENTERED AT 13:01:07 ON 12 APR 2005

=> fil ca; act a658811a1/a
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                                                   ENTRY    SESSION
FULL ESTIMATED COST                                 0.21       0.21

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FILE COVERS 1907 - 7 Apr 2005 VOL 142 ISS 16
FILE LAST UPDATED: 7 Apr 2005 (20050407/ED)

This file contains CAS Registry Numbers for easy and accurate substance identification.

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L1  (       315)SEA FILE=REGISTRY ("ISOPROPYL METHACRYLATE"/CRN OR "ISOPROPYL 2
L2  (      6017)SEA FILE=REGISTRY ("ACRYESTER L"/CRN OR "AGEFLEX FM 246"/CRN OR
L3  (      4230)SEA FILE=REGISTRY ("ACRYESTER S"/CRN OR "BLEMMER SMA"/CRN OR "L
L4  (       519)SEA FILE=REGISTRY ("ENT 8767"/CRN OR "N-OCTYL METHACRYLATE"/CRN
L5  (       103)SEA FILE=REGISTRY ("AMYL METHACRYLATE"/CRN OR "N-AMYL METHACRYL
L6  (       660)SEA FILE=REGISTRY ("N-PROPYL METHACRYLATE"/CRN OR "NSC 32624"/C
L7  (       474)SEA FILE=REGISTRY ("MYRISTYL METHACRYLATE"/CRN OR "TETRADECYL M
L8  (       890)SEA FILE=REGISTRY (METHOXYETHENE/CRN OR METHOXYETHYLENE/CRN OR
L9  (      2491)SEA FILE=REGISTRY (ETHOXYETHENE/CRN OR ETHOXYETHYLENE/CRN OR "E
L10 (       848)SEA FILE=REGISTRY (BUTOXYETHENE/CRN OR BUTOXYETHYLENE/CRN OR "B
L11 (     97008)SEA FILE=REGISTRY 80-62-6/CRN OR 97-63-2/CRN OR L1 OR 88-12-0/C
L12 (     92191)SEA FILE=REGISTRY 141-32-2/CRN OR 97-88-1/CRN OR L2 OR 106-91-2
L13 (     94944)SEA FILE=REGISTRY 79-41-4/CRN OR 79-10-7/CRN OR 140-10-3/CRN OR
L14 (     17116)SEA FILE=REGISTRY L13 AND L11 AND L12 AND PMS/CI
L15 (     14247)SEA FILE=CA L14
L16          80 SEA FILE=CA L15 (P) (BINDER OR RESIN) AND TONER

=> d fbib kwic 31-40; fil stnguide

L16  ANSWER 31 OF 80  CA  COPYRIGHT 2005 ACS on STN
Full Text
AN   129:142567  CA
TI   Resin composition for electrophotographic toner
IN   Suzuki, Tatsuo; Matsunaga, Takayoshi
PA   Sekisui Chemical Kogyo Kabushiki Kaisha, Japan
SO   U.S., 10 pp., Cont.-in-part of U.S. Ser. No. 165,329, abandoned.
     CODEN: USXXAM
DT   Patent
LA   English
FAN.CNT 1
     PATENT NO.          KIND   DATE        APPLICATION NO.         DATE
     ---------------     ----   --------    --------------------    --------
PI   US 5789130           A     19980804    US 1996-739655          19961031
                                             US 1993-165329      B2 19931213
RE.CNT  6     THERE ARE 6 CITED REFERENCES AVAILABLE FOR THIS RECORD
              ALL CITATIONS AVAILABLE IN THE RE FORMAT
TI   Resin composition for electrophotographic toner
AB   A resin compn. for an electrophotog. toner comprises as a main component
     a vinyl copolymer having a higher mol. wt. component with a peak value of
     mol. wt. distribution of 2x105-2x106 and a lower mol. wt.
     component with a peak value of mol. wt. distribution of
     4x103-8x104 and a thermoplastic polyester urethane having a
     wt.-av. mol. wt. of 5000-500,000 and in an amt. of 0.01 to 30 wt.% of the
     total resin compn.
ST   electrophotog toner vinyl copolymer polyester urethane
IT   79-41-4DP, polymers with (meth)acrylates and polyester-urethane rubber,
     graft   80-62-6DP, polymers with (meth)acrylates and polyester-urethane
     rubber, graft   97-88-1DP, polymers with (meth)acrylates and
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polyester-urethane rubber, graft 100-42-5DP, polymers with (meth)acrylates and polyester-urethane rubber, graft 103-11-7DP, polymers with (meth)acrylates and polyester-urethane rubber, graft **219790-31-5P** 219790-40-6P 219790-54-2P **219790-57-5P** 219790-75-7P **219791-49-8P** 219791-50-1P 219791-70-5P
RL: SPN (Synthetic preparation); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrophotog. **toner resin** compn. contg. vinyl copolymers and thermoplastic polyester urethanes)

L16 ANSWER 32 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 128:134349 CA
TI Electrophotographic **toner** resin composition
IN Hildeberto, Nava
PA Reichhold Chemicals, Inc., USA; Hildeberto, Nava
SO PCT Int. Appl., 41 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	WO 9749006	A1	19971224	WO 1997-US10454	19970617
	W: AL, AM, AT, AT, AU, AZ, BA, BB, BG, BR, BY, CA, CH, CN, CU, CZ, CZ, DE, DE, DK, DK, EE, EE, ES, FI, FI, GB, GE, HU, IL, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI, SK, SK, TJ, TM, TR, TT, UA, UG, US, UZ, VN, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM				
	RW: GH, KE, LS, MW, SD, SZ, UG, ZW, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN, ML, MR, NE, SN, TD, TG				
				US 1996-664853	A1 19960617
	US 5780195	A	19980714	US 1996-664853	19960617
	AU 9733977	A1	19980107	AU 1997-33977	19970617
				US 1996-664853	A 19960617
				WO 1997-US10454	W 19970617
	EP 850436	A1	19980701	EP 1997-930058	19970617
	R: AT, BE, CH, DE, DK, ES, FR, GB, GR, IT, LI, LU, NL, SE, MC, PT, IE, FI				
				US 1996-664853	A 19960617
				WO 1997-US10454	W 19970617
	BR 9702335	A	19990720	BR 1997-2335	19970617
				US 1996-664853	A 19960617
				WO 1997-US10454	W 19970617
	JP 11513137	T2	19991109	JP 1997-503231	19970617
				US 1996-664853	A 19960617
				WO 1997-US10454	W 19970617

TI Electrophotographic **toner** resin composition
AB An electrophotog. **toner** resin compn. and a method of making the same are disclosed. The **toner** resin compn. comprises a polyester resin formed from a reaction between a polybasic acid or anhydride and a polyhydric alc. and a polyfunctional epoxy resin which is crosslinked to the polyester resin. The crosslinking is effected in the presence of a catalyst.
ST electrophotog **toner** epoxy resin crosslinked polyester
IT 47458-32-2, Octadecyl succinic anhydride **201358-26-1**, Acrylic acid-butadiene-methyl methacrylate-glycidyl methacrylate copolymer 201556-35-6, Epotuf 37-007 201556-38-9, Finetone 6694
RL: RCT (Reactant); TEM (Technical or engineered material use); RACT (Reactant or reagent); USES (Uses)
(reaction in prepg. epoxy **resin**-crosslinked polyesters for

electrophotog. toners)

L16 ANSWER 33 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 127:339231 CA
TI Electrophotographic **toner** and resin composition for it
IN Takehara, Hiroaki; Okuto, Masazumi; Noguchi, Kazuhiro; Takahashi, Toru
PA Sekisui Chemical Co. Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 14 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09258483	A2	19971003	JP 1996-68091	19960325
JP 2004258690	A2	20040916	JP 2004-176124	20040614
			JP 1996-68091 A3	19960325

TI Electrophotographic **toner** and resin composition for it
AB In the title resin compn. comprising a resin having a domain-matrix-type disperse structure and a low m.p. cryst. substance having functional groups, the cryst. substance is chem. bonded to the resin forming the matrix phase. The compn. may contain a resin comprising a low-mol.-wt. vinyl polymer with wt. av. mol. wt. (Mw) <100,000, softening point <150°, and glass transition temp. ≥50° 60-95 and a high-mol.-wt. vinyl polymer with Mw ≥100,000 and softening point ≥150° 5-40 wt.%, a low m.p. cryst. substance, and a rubber-like substance. A **toner** using the resin is also claimed. The **toner** shows good fixability at lower temp., antioffset properties, and storage stability.
ST electrophotog **toner** domain matrix structure resin; crystal substance fixing aid electrophotog **toner**; rubber electrophotog developer **toner**
IT Acrylic rubber
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(Bu acrylate-Me methacrylate, fixing aid; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)
IT Polyesters, preparation
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(acrylic; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)
IT Styrene-butadiene rubber, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(block, triblock; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)
IT Electrophotographic toners
(electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)
IT Hydrocarbon waxes, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)
IT Styrene-butadiene rubber, uses
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(hydrogenated, block, diblock; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)
IT Waxes
RL: TEM (Technical or engineered material use); USES (Uses)

(oxidized, graft copolymer with hydroxyethyl methacrylate-styrene copolymer; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)

IT 661-19-8DP, Behenyl alcohol, reaction products with methacrylic acid-styrene copolymer 9003-53-6P, Polystyrene 9010-92-8DP, Methacrylic acid-styrene copolymer, reaction products with behenyl alc. **25035-69-2P**, Butyl acrylate-methacrylic acid-methyl methacrylate copolymer 25036-16-2P, Butyl acrylate-methacrylic acid-styrene copolymer 26010-51-5DP, 2-Hydroxyethyl methacrylate-styrene copolymer, reaction products with oxidized polyethylene wax 198016-82-9P, Glycidyl methacrylate-hexamethylenediol-sebacic acid-styrene graft copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(electrophotog. **toner** contg. domain-matrix-type **resin** and cryst. substance)

IT 9000-01-5, Gum, arabic
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(fixing aid; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)

IT 25852-37-3, Butyl acrylate-methyl methacrylate copolymer
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(rubber; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)

IT 106107-54-4 694491-73-1
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(styrene-butadiene rubber, block, triblock; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)

IT 709030-54-6
RL: MOA (Modifier or additive use); TEM (Technical or engineered material use); USES (Uses)
(styrene-butadiene rubber, hydrogenated, block, diblock; electrophotog. **toner** contg. domain-matrix-type resin and cryst. substance)

L16 ANSWER 34 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 127:169058 CA
TI Polymer composition and electrophotographic **toner** using it
IN Okuto, Masazumi; Furukawa, Toshiharu
PA Sekisui Chemical Co. Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09185182	A2	19970715	JP 1996-209	19960105
			JP 1996-209	19960105

TI Polymer composition and electrophotographic **toner** using it
AB The title compn. consists of (A) a vinyl polymer contg. (a) a low-mol.-wt. component with maximal value in mol. wt. distribution (x) 3 × 103-5 × 104 and (b) a high-mol.-wt. component with x 3 × 105-5 × 106 and acid value ≥10 mg KOH/g larger than that of a and (B) a vinyl polymer having glycidyl or β-methylglycidyl groups. A **toner** contg. the compn. is also claimed. The **toner** shows good antiblocking and antioffset properties and high fixability at a various temp. range.
ST vinyl polymer glycidyl binder electrophotog **toner**; acrylic styrene copolymer binder electrophotog **toner**

IT Binders
Electrophotographic toners
(high-fixability electrophotog. **toner** contg. vinyl polymer-based binder)
IT 25586-20-3P, Acrylic acid-butyl acrylate-styrene copolymer
25987-66-0P, Butyl acrylate-methacrylic acid-methyl methacrylate-styrene copolymer 26428-43-3P, Butyl acrylate-glycidyl methacrylate-styrene copolymer 27306-43-0P, Acrylic acid-2-ethylhexyl acrylate-methyl methacrylate-styrene copolymer 50327-91-8P, Butyl acrylate-glycidyl acrylate-methyl methacrylate-styrene copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(high-fixability electrophotog. **toner** contg. vinyl polymer-based **binder**)

L16 ANSWER 35 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 127:58013 CA
TI Binder polymer composition and electrophotographic **toner** with good fixability using it
IN Okuto, Masazumi; Furukawa, Toshiharu
PA Sekisui Chemical Co. Ltd., Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI JP 09127729	A2	19970516	JP 1995-280306	19951027
			JP 1995-280306	19951027

TI Binder polymer composition and electrophotographic **toner** with good fixability using it
AB The binder compn. comprises a vinyl copolymer consisting of (A) a low-mol.-wt. component having maximal value in mol.-wt. distribution (x) at 3 × 103-5 × 104 and (B) a high-mol.-wt. component having maximal value in mol.-wt. distribution at 3 × 105-5 × 106 and acid value ≥35 KOH-mg/g which is larger than that of the low-mol.-wt. component. The **toner** contg. the compn. is also claimed. The **toner** showed good fixability at a wide temp. range.
ST electrophotog **toner** vinyl polymer binder fixability
IT Binders
Electrophotographic toners
(vinyl polymer blend binder for electrophotog. **toner** with good fixability)
IT Polymer blends
RL: TEM (Technical or engineered material use); USES (Uses)
(vinyl polymer blend binder for electrophotog. **toner** with good fixability)
IT 25036-16-2, Butyl acrylate-methacrylic acid-styrene copolymer
25586-20-3, Acrylic acid-butyl acrylate-styrene copolymer
27306-39-4, Acrylic acid-butyl acrylate-methyl methacrylate-styrene copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(high-mol.-wt.; vinyl polymer blend **binder** for electrophotog. **toner** with good fixability)
IT **25987-66-0P**, Butyl acrylate-methacrylic acid-methyl methacrylate-styrene copolymer 136456-39-8P, Butyl acrylate-monomethacryloyloxyethyl succinate-styrene copolymer
RL: PNU (Preparation, unclassified); TEM (Technical or engineered material use); PREP (Preparation); USES (Uses)
(low-mol.-wt.; vinyl polymer blend **binder** for electrophotog.

toner with good fixability)
IT 25153-46-2, 2-Ethylhexyl acrylate-styrene copolymer 25750-06-5, 2-Ethylhexyl acrylate-methyl methacrylate-styrene copolymer
RL: TEM (Technical or engineered material use); USES (Uses)
(low-mol.-wt.; vinyl polymer blend binder for electrophotog. **toner** with good fixability)

L16 ANSWER 36 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 126:285283 CA
TI Electrophotographic solid **toner** with improved cleanability
IN Ogura, Katsuyuki; Nishio, Yoshihiro
PA Dainippon Ink Chemicals, Japan
SO Jpn. Kokai Tokkyo Koho, 7 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 09054460	A2	19970225	JP 1995-208057	19950815
			JP 1995-208057	19950815

TI Electrophotographic solid **toner** with improved cleanability
AB The colorant of the title **toner** comprises dye and/or pigment particles and a polymer binder with a dissoln. parameter of ≥8.5 and a softening temp. of 45-150°. The binder may be a graft vinyl polymer with urethane linkages.
ST electrophotog solid **toner** binder
IT Polyurethanes, uses
RL: DEV (Device component use); USES (Uses)
(acrylic, graft; binder resin of electrophotog. solid **toner**)
IT Electrophotographic toners
(electrophotog. solid **toner** with improved cleanability)
IT 36632-30-1, Methyl acrylate-stearyl acrylate copolymer **188962-79-0**, Butyl acrylate-butyl methacrylate-hydroxypropyl methacrylate-lauryl methacrylate-methacrylic acid-methyl methacrylate graft copolymer
RL: DEV (Device component use); USES (Uses)
(**binder resin** of electrophotog. solid **toner**)

L16 ANSWER 37 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 126:179002 CA
TI Manufacture of electrophotographic encapsulated **toner**
IN Takayanagi, Hitoshi; Sakurai, Hiroko
PA Dainippon Ink Chemicals, Japan
SO Jpn. Kokai Tokkyo Koho, 9 pp.
CODEN: JKXXAF
DT Patent
LA Japanese
FAN.CNT 1

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 08334927	A2	19961217	JP 1995-139304	19950606
			JP 1995-139304	19950606

TI Manufacture of electrophotographic encapsulated **toner**
AB The title manuf. comprises a process to mix two kinds of self-dispersing-resins having different dispersibilities in an aq. medium to form colorant-encapsulated **toner** particles by a phase inversion emulsification and a process to dry the **toner** particles. The **toner** shows excellent low-temp. fixability, heat-resistance, storage stability and particle size distribution.

ST electrophotog encapsulated **toner** self dispersing resin
IT Electrophotographic toners
(microencapsulated; manuf. of electrophotog. encapsulated **toner**
)
IT Polyesters, uses
RL: DEV (Device component use); USES (Uses)
(self-dispersing-resin in electrophotog. encapsulated **toner**)
IT 25301-37-5, Butyl methacrylate-methacrylic acid-styrene copolymer
27306-43-0, Acrylic acid-2-ethylhexyl acrylate-methyl methacrylate-styrene
copolymer **56793-67-0**, Butyl methacrylate-methyl
methacrylate-methacrylic acid-styrene copolymer
RL: DEV (Device component use); USES (Uses)
(self-dispersing-**resin** in electrophotog. encapsulated
toner)

L16 ANSWER 38 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 126:132728 CA
TI Waterborne basecoat compositions containing polyurethane and water
reducible resin for use in basecoat/clearcoat applications
IN Kinney, Layton F.; Golas, Sharon K.
PA The Sherwin-Williams Company, USA; Kinney, Layton F.; Golas, Sharon K.
SO PCT Int. Appl., 49 pp.
CODEN: PIXXD2
DT Patent
LA English
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	WO 9640511	A1	19961219	WO 1996-US9519		19960606
	W: AL, AM, AT, AU, AZ, BB, BG, BR, BY, CA, CH, CN, CZ, DE, DK, EE, ES, FI, GB, GE, HU, IS, JP, KE, KG, KP, KR, KZ, LK, LR, LS, LT, LU, LV, MD, MG, MK, MN, MW, MX, NO, NZ, PL, PT, RO, RU, SD, SE, SG, SI					
	RW: KE, LS, MW, SD, SZ, UG, AT, BE, CH, DE, DK, ES, FI, FR, GB, GR, IE, IT, LU, MC, NL, PT, SE, BF, BJ, CF, CG, CI, CM, GA, GN					
				US 1995-472449	A	19950607
				US 1995-475151	A	19950607
				US 1995-479070	A	19950607
				US 1995-485890	A	19950607
	CA 2223796	AA	19961219	CA 1996-2223796		19960606
				US 1995-472449	A	19950607
				US 1995-475151	A	19950607
				US 1995-479070	A	19950607
				US 1995-485890	A	19950607
	AU 9661023	A1	19961230	AU 1996-61023		19960606
	AU 704868	B2	19990506			
				US 1995-472449	A	19950607
				US 1995-475151	A	19950607
				US 1995-479070	A	19950607
				US 1995-485890	A	19950607
				WO 1996-US9519	W	19960606
	EP 842047	A1	19980520	EP 1996-918336		19960606
	EP 842047	B1	20030416			
	R: DE, ES, FR, GB, IT, SE, IE					
				US 1995-472449	A	19950607
				US 1995-475151	A	19950607
				US 1995-479070	A	19950607
				US 1995-485890	A	19950607
				WO 1996-US9519	W	19960606
	BR 9609024	A	19990629	BR 1996-9024		19960606
				US 1995-472449	A	19950607

			US 1995-475151	A	19950607
			US 1995-479070	A	19950607
			US 1995-485890	A	19950607
			WO 1996-US9519	W	19960606
JP 11507674	T2	19990706	JP 1996-501823		19960606
			US 1995-472449	A	19950607
			US 1995-475151	A	19950607
			US 1995-479070	A	19950607
			US 1995-485890	A	19950607
			WO 1996-US9519	W	19960606
EP 1241237	A1	20020918	EP 2002-9248		19960606
R: DE, ES, FR, GB, IT, SE, IE					
			US 1995-472449	A	19950607
			US 1995-475151	A	19950607
			US 1995-479070	A	19950607
			US 1995-485890	A	19950607
			EP 1996-918336	A3	19960606
ES 2191756	T3	20030916	ES 1996-918336		19960606
			US 1995-472449	A	19950607
			US 1995-475151	A	19950607
			US 1995-479070	A	19950607
			US 1995-485890	A	19950607
US 6057400	A	20000502	US 1998-973724		19981223
			WO 1996-US9519	W	19960606
US 6384131	B1	20020507	US 2000-562508		20000501
			WO 1996-US9519	A1	19960606
			US 1998-973724	A1	19981223

AB Compns. comprise polyurethane dispersions and H2O-reducible resins and emulsion polymers, pigments and water, particularly suited for use as basecoats in low VOC basecoat/clearcoat vehicle coatings. A formulation contg. mixing clear based on Rhoplex W-91 276.8, Blue mica **toner** based on mixt. of Rhoplex W-91 and Neorez R-966 226.0, Green flop Blue nonmetallic **toner** based on Neorez R-966 159.6, Blue shade Green nonmetallic **toner** based on mixt. of Neorez R-966 and acrylic acid-Bu acrylate-Bu methacrylate-2-hydroxyethyl methacrylate-Me methacrylate-styrene copolymer 88.1, and Al metallic **toner** based on XR17-B080-83 graft polymer 69.3, and water 156.8 g.

IT 79-10-7D, 2-Propenoic acid, polymer with acrylate esters and castor oil, graft, uses 80-62-6D, Methyl methacrylate, polymer with acrylate esters and castor oil, graft 100-42-5D, Styrene, polymer with acrylate esters and castor oil, graft 141-32-2D, polymer with acrylate esters and castor oil, graft 923-26-2D, polymer with acrylate esters and castor oil, graft **57828-93-0**, Acrylic acid-butyl acrylate-butyl methacrylate-2-hydroxyethyl methacrylate-methyl methacrylate-styrene copolymer 186300-79-8, Dimethylolpropionic acid-isophorone diisocyanate-THF block copolymer 186397-77-3, XR 17B080-83
RL: TEM (Technical or engineered material use); USES (Uses)
(base coat compns. contg. polyurethane and water reducible **resin** formulated for solvent and water resistance for use in vehicle (re)finishing)

L16 ANSWER 39 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text
AN 125:312400 CA
TI Resin composition for electrophotographic **toner**
IN Niinae, Takashi; Sasada, Shinya
PA Sanyo Chemical Industries Ltd., Japan
SO Ger. Offen., 13 pp.
CODEN: GWXXBX
DT Patent
LA German
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	DE 19608712	A1	19960919	DE 1996-19608712		19960306
				JP 1995-74565	A	19950306
	JP 08305081	A2	19961122	JP 1996-69286		19960228
	JP 2906034	B2	19990614			
				JP 1995-74565	A	19950306
	CN 1133443	A	19961016	CN 1996-102711		19960301
				JP 1995-74565	A	19950306
	FR 2731529	A1	19960913	FR 1996-2830		19960306
	FR 2731529	B1	19981127			
				JP 1995-74565	A	19950306
	US 5714542	A	19980203	US 1996-611821		19960306
				JP 1995-74565	A	19950306

TI Resin composition for electrophotographic **toner**

AB The title compn. comprises (A) a resin compn. with a dynamic elastic modulus of ≥500,000 dyne/cm2 at 170° and (B) a resin compn. with a dynamic elastic modulus of ≤100,000 dyne/cm2 at 170°, where (A) contains a nitrile-group-contg. polymer. The compn. is esp. suitable as a binder resin for electrophotog. dry **toner**.

ST resin compn electrophotog **toner**

IT Epoxy resins, uses
Polyamides, uses
Polyesters, uses
Urethane polymers, uses
RL: DEV (Device component use); USES (Uses)
(resin compn. for electrophotog. **toner** comprising)

IT Electrophotographic developers
(toners, resin compn. for electrophotog. **toner** with specific dynamic elastic modulus)

IT 9010-79-1, Viscol 550P 25153-46-2, 2-Ethylhexylacrylate-styrene copolymer 26282-37-1, Acrylonitrile-2-ethylhexylacrylate-styrene copolymer 35725-18-9, Acrylonitrile-lauryl methacrylate-styrene copolymer 52907-82-1, Benzoic acid-Epicote 1002 copolymer 89993-85-1, Propoxylated bisphenol A-isophthalic acid copolymer 97697-76-2, Ethoxylated bisphenol A-terephthalic acid copolymer 130038-55-0, MDI-ethoxylated bisphenol A copolymer 138128-04-8, Propoxylated bisphenol A-dodecenylsuccinic acid-terephthalic acid copolymer **183243-85-8**, Acrylic acid-acrylonitrile-lauryl methacrylate-styrene copolymer
RL: DEV (Device component use); USES (Uses)
(**resin** compn. for electrophotog. **toner** comprising)

L16 ANSWER 40 OF 80 CA COPYRIGHT 2005 ACS on STN
Full Text

AN 125:181177 CA

TI Electrophotographic color imaging method

IN Faust, Raimund Josef; Lutz, Silvia

PA Hoechst A.-G., Germany

SO Eur. Pat. Appl., 17 pp.
CODEN: EPXXDW

DT Patent

LA German

FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
PI	EP 720067	A1	19960703	EP 1995-120267		19951221
	EP 720067	B1	19990915			
	R: AT, BE, DE, ES, FR, GB, IT, NL					
				DE 1994-4447104	A	19941229
	DE 4447104	A1	19960704	DE 1994-4447104		19941229
	US 5700618	A	19971223	US 1995-579434		19951227

			DE 1994-4447104	A	19941229
JP 08254859	A2	19961001	JP 1995-343827		19951228
			DE 1994-4447104	A	19941229
BR 9506125	A	19971223	BR 1995-6125		19951228
			DE 1994-4447104	A	19941229

AB The title method utilizes colorless transparent **toner** comprising colorless polymeric binder and colorless polymeric charge controller. The **toner** is pos.-charging liq. **toner** and its binder is a graft-mixed-polymer with claimed vinyl monomers. The method produced high quality images.

ST color electrophotog method **toner** graft polymer

IT **180311-52-8P**, 2-Ethylhexyl methacrylate-glycidyl methacrylate-methacrylic acid-methyl acrylate-methyl methacrylate-N-vinyl-2-pyrrolidone graft copolymer **180311-53-9P**, 2-Ethylhexyl methacrylate-glycidyl methacrylate-methacrylic acid-methyl acrylate-methyl methacrylate-4-vinylpyridine graft copolymer
RL: DEV (Device component use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(**binder resin** of electrophotog. **toner**)

IT 31196-82-4P, Lauryl methacrylate-methyl methacrylate-N-vinylpyrrolidone copolymer 34888-27-2P, 2-Hydroxyethyl methacrylate-lauryl methacrylate copolymer
RL: MOA (Modifier or additive use); PNU (Preparation, unclassified); PREP (Preparation); USES (Uses)
(charge controller of electrophotog. **toner**)

COST IN U.S. DOLLARS	SINCE FILE ENTRY	TOTAL SESSION
FULL ESTIMATED COST	28.63	28.84

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)	SINCE FILE ENTRY	TOTAL SESSION
CA SUBSCRIBER PRICE	-6.80	-6.80

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FILE CONTAINS CURRENT INFORMATION.
LAST RELOADED: Apr 8, 2005 (20050408/UP).

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